REPLY TO ATTENTION OF

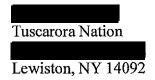
DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site - 2012 Environmental Surveillance Technical Memorandum



Dear :

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to Director, Tuscarora Environment Program. If you have any questions or require any additional information regarding the NFSS ESP, please contact Environmental Project Management Team Leader, Project Engineer,

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable Chris Collins Representative in Congress 1117 Longworth HOB Washington, D.C. 20515

Dear Representative Collins:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to your Williamsville Office. If you have any questions or require any additional information regarding the NFSS ESP, please contact, Environmental Project Management Team Leader, or Project Engineer,

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable Charles Schumer United States Senator 322 Hart Senate Office Building Washington D.C. 20510

Dear Senator Schumer:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to your Buffalo office. If you have any questions or require any additional information regarding the NFSS ESP, please contact Environmental Project Management Team Leader, Project Engineer.

Sincerely,

REPLY TO ATTENTION OF

DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 29 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable Kirsten Gillibrand United States Senator 478 Russell Washington, D.C. 20510

Dear Senator Gillibrand:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to your Buffalo office. If you have an	y questions or
require any additional information regarding the NFSS ESP, please contact	,
Environmental Project Management Team Leader,	, Project
Engineer, (<u> </u>

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

The Honorable Andrew M. Cuomo Governor of the State of New York Executive Chamber New York State Capitol Building Albany, NY 12224

Dear Governor Cuomo:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

SUBJECT: FUSRAP NFSS - 2012 Environmental Surveillance Technical Memorandum

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questio	ns or require any	additional informatio	n regarding the	NFSS ESP, please
contact	, Environmental	Project Management	Team Leader,	, 0

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable George D. Maziarz New York State Senator 175 Walnut Street, Suite 6 Lockport, NY 14094

Dear Senator Maziarz:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact please c



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable John Ceretto New York State Assemblyman 1700 Pine Avenue Niagara Falls, NY 14301

Dear Assemblyman Ceretto:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any please contact or	questions or require any additional information regarding the NFSS ESI, Environmental Project Management Team Leader, Project Engineer,
	Sincerely,
	Lieutenant Colonel, Corps of Engineers
	District Commander



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable , Chairman Niagara County Legislature Niagara Falls, NY 14304

Dear Chairman

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact Remarks and Project Management Team Leader, (Remarks and Project Engineer, Remarks and Project Engineer, Remarks



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable , Vice-Chairman Niagara County Legislature

Ransomville, NY 14131

Dear Vice-Chairman

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact

Environmental Project Management Team Leader,

Project Engineer,

Sincerely,

Lieutenant Colonel, Corps of Engineers

District Commander



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable Supervisor
Town of Porter
3265 Creek Road
Youngstown, NY 14174

Dear :

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact please contact project Management Team Leader, Project Engineer, Sincerely,

southfrag.



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable Road, Supervisor Town of Lewiston
1375 Ridge Road
Lewiston, NY 14092

Dear Supervisor Brochey:

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact

Environmental Project Management Team Leader,

Project Engineer,

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Executive Office

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Honorable
New York State Assembly
8180 Main Street
Clarence, NY 14221

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- to ensure protection of human health and the environment
- to verify compliance with environmental regulatory standards
- to verify that the Interim Waste Containment Structure (IWCS) is performing as designed

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off-site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off-site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact please contact project Management Team Leader, Project Engineer, Projec

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

U.S. Department of Energy Office of Legacy Management, LM-40 1000 Independence Avenue, SW Washington, D.C. 20585-0002

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

OFFICE: Special Projects Branch -2-SUBJECT: FUSRAP NFSS – 2012 Environmental Surveillance Technical Memorandum

• Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to Energy, Office of Legacy Management. If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, Project Engineer,

Sincerely,

Environmental Project Management
Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

United States Environmental Protection Agency Region 2 Division of Environmental Planning and Protection 290 Broadway, 28th Floor New York, NY 10007-1866

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to the United States Environmental Protection Agency, Region II. If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, (Team Leader, Project Engineer, Project Engineer,

Sincerely,

Environmental Project Management Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

. Bureau Director

Remedial Bureau A
New York State Department of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment
- To verify compliance with environmental regulatory standards
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to
all of the New York State Department of Environmental Conservation. If you have any
questions or require any additional information regarding the NFSS ESP, please contact me,
Environmental Project Management Team Leader,
Engineer,

Sincerely,

Environmental Project Management Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Regional Director
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2915

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- to ensure protection of human health and the environment
- to verify compliance with environmental regulatory standards
- to verify that the Interim Waste Containment Structure (IWCS) is performing as designed

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, or Ms., Project Engineer,

Sincerely,

Environmental Project Management
Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Chief, Environmental Radiation Section New York State Department of Health 547 River Street, Room 530 Troy, NY 12180-2216

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- to ensure protection of human health and the environment
- to verify compliance with environmental regulatory standards
- to verify that the Interim Waste Containment Structure (IWCS) is performing as designed

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader,

Sincerely,

Environmental Project Management
Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

New York State Department of Health Western Regional Office Project Manager 584 Delaware Avenue, 2nd Floor, Suite 201 Buffalo, NY 14202

Dear :

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

• Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader,

Sincerely,

Environmental Project Management Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Public Health Director
Niagara County Health Department
5467 Upper Mountain Road, Suite 100
Lockport, NY 14094-1899

Dear :

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to	, Niagara County Health
Department. If you have any questions or req	uire any additional information regarding the
NFSS ESP, please contact me, Environmental	l Project Management Team Leader,
, or , Project E	ngineer,

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

CWM, Chemical Services, LLC. 1550 Balmer Road Model City, NY 14107

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, (

Sincerely,

226604.



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Vice President of Operations Modern Disposal Company, WNY 4746 Model City Road Model City, NY 14107

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

• Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP, please contact me, Environmental Project Management Team Leader, and the second of the NFSS ESP.

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Real Estate Department Occidental 5005 LBJ Freeway Dallas, TX 75244-6119

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

• Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, Project Engineer, (Project Engineer, (Project Engineer))

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Real Estate Rights – NY West National Grid 144 Kensington Avenue Buffalo, NY 14214

Dear

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.

- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
- Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

If you have any questions or require any additional information regarding the NFSS ESP, please contact me, Environmental Project Management Team Leader, (Project Engineer, Project Engineer, Inc.)

Sincerely,



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

Special Projects Branch

JAN 2 9 2014

SUBJECT: Formerly Utilized Sites Remedial Action Program Niagara Falls Storage Site Technical Memorandum

Lewiston-Porter Central School District 4061 Creek Road Youngstown, NY 14174

Dear ::

The U.S. Army Corps of Engineers Buffalo District conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.

The ESP has been designed to achieve the following objectives:

- To ensure protection of human health and the environment.
- To verify compliance with environmental regulatory standards.
- To verify that the Interim Waste Containment Structure (IWCS) is performing as designed.

- Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
- Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
- Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
- Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.

OFFICE: Special Projects Branch -2-SUBJECT: FUSRAP NFSS – 2012 Environmental Surveillance Technical Memorandum

• Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.

In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at

http://www.lrb.army.mil/missions/HTRW/FUSRAP/NagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

A copy of this letter is being furnished to	, Lewiston-Porter School
District Board of Education; Esq.,	, LLP; and
SUNY Buffalo. If you have any questions or req	uire any additional information regarding the
NFSS ESP, please contact me, Environmental Pro	oject Management Team Leader,
or	

Sincerely,

Environmental Project Management

Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

CELRB-SPF

JAN 2 9 2014

MEMORANDUM FOR HQ, U.S. Army Corps of Engineers, (ATTN: CECW-LRD-M), 441 G. Street, N.W., Washington, DC 20314

- 1. CELRB conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.
- 2. The ESP has been designed to achieve the following objectives: to ensure protection of human health and the environment; to verify compliance with environmental regulatory standards; and, to verify that the Interim Waste Containment Structure (IWCS) is performing as designed. To meet these objectives, the Corps monitors environmental media and regularly reassesses the adequacy of the program, making the necessary adjustments to the program, as warranted. Currently, the ESP is comprised of the following sampling activities:
 - Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
 - Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
 - Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
 - Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.
- 3. In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also

calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

- 4. The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment.
- 5. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at http://www.lrb.theCorps.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

CELRB-SPF

JAN 2 9 2014

MEMORANDUM FOR HQ, U.S. Army Corps of Engineers, (ATTN: CEMP-CEP), 441 G. Street, N.W., Washington, DC 20314

- 1. CELRB conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.
- 2. The ESP has been designed to achieve the following objectives: to ensure protection of human health and the environment; to verify compliance with environmental regulatory standards; and, to verify that the Interim Waste Containment Structure (IWCS) is performing as designed. To meet these objectives, the Corps monitors environmental media and regularly reassesses the adequacy of the program, making the necessary adjustments to the program, as warranted. Currently, the ESP is comprised of the following sampling activities:
 - Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
 - Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
 - Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
 - Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.
- 3. In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also

calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

- 4. The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment.
- 5. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at http://www.lrb.theCorps.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

5. The point of contact for CELRE	is either me at		, CELRB-
TD-EE, at			
		24 Sandardorum	
	Enviro	onmental Project Managen	nent

Team Leader



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

CELRB-SPF

JAN 2 9 2014

MEMORANDUM FOR	Great Lakes and	Ohio River Division,	U.S. Army Cor	rps of Engineers	,
(ATTN:	, CELRD-PDM-1	M), 550 Main Street,	Room 10032, C	Cincinnati, OH	
45202-3222			*		

- 1. CELRB conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.
- 2. The ESP has been designed to achieve the following objectives: to ensure protection of human health and the environment; to verify compliance with environmental regulatory standards; and, to verify that the Interim Waste Containment Structure (IWCS) is performing as designed. To meet these objectives, the Corps monitors environmental media and regularly reassesses the adequacy of the program, making the necessary adjustments to the program, as warranted. Currently, the ESP is comprised of the following sampling activities:
 - Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
 - Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
 - Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
 - Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.
- 3. In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual

weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

- 4. The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment.
- 5. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at http://www.lrb.theCorps.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

5. The point of contact for CELRB is TD-EE, at	s either me at	, or	, CELRB-
		ntal Project Mana	gement
	Team Lead		gemem



BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

CELRB-SPF

JAN 2 9 2014

MEMORANDUM FOR Center of Expertise, U.S. Army Corps of Engineers, (ATTN: CENWO-HX-S), 1616 Capitol Ave, Omaha, NE 68102

- 1. CELRB conducts an environmental surveillance program (ESP) at the Niagara Falls Storage Site (NFSS) in support of our Formerly Utilized Sites Remedial Action Program (FUSRAP) mission to protect human health and the environment. The ESP quantifies and evaluates radiological, chemical, and water quality data from the environment at the NFSS. Results of this program are published annually in the form of a technical memorandum.
- 2. The ESP has been designed to achieve the following objectives: to ensure protection of human health and the environment; to verify compliance with environmental regulatory standards; and, to verify that the Interim Waste Containment Structure (IWCS) is performing as designed. To meet these objectives, the Corps monitors environmental media and regularly reassesses the adequacy of the program, making the necessary adjustments to the program, as warranted. Currently, the ESP is comprised of the following sampling activities:
 - Annual radon-222 monitoring through the placement of 183 radon flux canisters on the IWCS protective cap and at background locations.
 - Semi-annual radon monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual external gamma radiation monitoring through the placement of detectors at 26 locations around the IWCS, site perimeter, and off site.
 - Semi-annual surface water and sediment sampling at a total of 11 points along the West Drainage Ditch, Central Drainage Ditch, and east (upstream) of the Central Drainage Ditch; one location in the Central Drainage Ditch is sampled on a quarterly basis.
 - Semi-annual groundwater monitoring of 39 monitoring wells for radionuclides, metals, anions, and water quality parameters; four of these wells are also monitored for volatile organic compounds (VOCs); two wells are sampled on a quarterly basis.
 - Quarterly water level measurements in 101 monitoring wells throughout the site to monitor the groundwater flow directions in the upper and lower water-bearing zones.
- 3. In addition to the collection and analysis of environmental samples, the ESP includes the calculation of dose to off-site receptors from airborne emissions of site soils using annual weather data collected at the Niagara Falls International Airport by the National Weather Service. The dose to off-site receptors based on gamma radiation measurements is also

calculated and summed with the airborne emissions dose to determine the cumulative dose to the public from the NFSS.

- 4. The findings presented in the 2012 Niagara Falls Storage Site Environmental Surveillance Technical Memorandum are consistent with prior years, demonstrating that site controls are continuing to perform as designed and the site is fully protective of human health and the environment.
- 5. Consistent with the Corps' environmental operating principles, we are making this technical memorandum available to you at http://www.lrb.theCorps.army.mil/Missions/HTRW/FUSRAP/NiagaraFallsStorageSite.aspx on the Buffalo District website. This Web address also includes additional information about NFSS and the ESP.

5. The point of contact for CELRB is either me at TD-EE, at Environmental Project Management

Team Leader

ers	CT: Niagara Falls Storage Site Res	•			TYPE:		ACTI INFO	ON RMATION
		ROUTING/STAFI (Please # boxes in o			1			
	Name/Office	Date	No.	Name/O	ffice			Date
	District Commander	2414-14		Civilian	Personnel Ad	lvisory C	enter	
	Deputy Commander			Contract	ing Division			
	Acting DDE-PM —	2 JAN		EEO				
	Executive Assistant	2d Jan 14		Emerger	cy Mgt Offic	е		
/	Executive Secretary	, , , , , , , , , , , , , , , , , , , ,		nformat	ion Mgt Offi	ce		
	Prog & Proj Mgt Branch -	1/17/34		nternal	Review Offic	е		
Ĺ	Programs Mgt Team			Logistics				
	Project Mgt Team		5	office of	Counsel -			1/22
	Special Proj. Branch -	1-17-13	4	ublic A	ffairs Office			1/2/2/14
	Special Proj. Branch -			Real Est	ate Office			•
	Technical Services Division			Resource	Mgt Office			
	Construction Branch			Aail rooi	n.			
	Design Branch			Special I	Projects Bran	ch -		
	Operations Branch			Special I	Projects Bran	ch -	е	
	Regulatory Branch		1,9	Spec. Pr	oj. Branch -			1/17/13
RPC	SE: Please review and sign							
	SE: Please review and sign ARY: (Bullet comments that convey the	point or message)						
MM your		ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
/IM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for				em know	that th	ne 2012
MM your ironr	ARY: (Bullet comments that convey the review and approval, are letters to the	ne elected officials for brandum is available on		lo District w		em know	that th	ne 2012
MM your ironr	ARY: (Bullet comments that convey the review and approval, are letters to the nental Surveillance Technical Memo	ne elected officials for brandum is available on	the Buffa	lo District w		em know	that th	ne 2012
MM your ronr	ARY: (Bullet comments that convey the review and approval, are letters to the nental Surveillance Technical Memo	ne elected officials for brandum is available on	the Buffa	lo District w		em know	that th	ne 2012
VIM your ronn	ARY: (Bullet comments that convey the review and approval, are letters to the nental Surveillance Technical Memo	ne elected officials for brandum is available on the state of the stat	the Buffa	lo District w		em know	that th	DATE