



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

[REDACTED]  
Tuscarora Nation  
2006 Mt. Hope Road  
Lewiston, New York 14092

Dear [REDACTED]

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is being furnished to [REDACTED], Director of the Tuscarora Environment Program, and is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] dict w/encs.

CF: [REDACTED]  
[REDACTED]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable Chris Collins  
Representative in Congress  
1117 Longworth House Office Building  
Washington, DC 20515

Dear Representative Collins:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is being furnished to your Williamsville office and is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable Charles Schumer  
United States Senator  
322 Hart Senate Office Building  
Washington, DC 20510

Dear Senator Schumer:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is being furnished to your Buffalo office and is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED] DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED]

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure



Distribution List:

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable Kirsten Gillibrand  
United States Senator  
478 Russel  
Washington, DC 20510

Dear Senator Gillibrand:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is being furnished to your Buffalo office and is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED] DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED]

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

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 is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable John D. Ceretto  
New York State Assemblyman  
[REDACTED]  
Niagara Falls, NY 14301

Dear Assemblyman Ceretto:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.



Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.

c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.

d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.

e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site [REDACTED].

Sincerely,

[REDACTED]  
Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable Jane L. Corwin  
New York State Assemblywoman  
8180 Main Street  
Clarence, NY 14221

Dear Assemblywoman Corwin:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED]

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED]  
Niagara County Legislature  
[REDACTED]  
[REDACTED]

Dear [REDACTED]:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[REDACTED]  
[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED] Vice-Chairman  
Niagara County Legislature  
[REDACTED]

Dear [REDACTED]:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.

c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.

d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.

e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED]

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED], Supervisor  
Town of Porter  
[REDACTED]  
Youngstown, NY 14174

Dear Supervisor [REDACTED]

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

- a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.

c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.

d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.

e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED] Mayor  
Village of Youngstown  
[REDACTED]  
Youngstown, NY 14174

Dear [REDACTED]:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure



[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED], Supervisor  
Town of Lewiston  
[REDACTED]  
Lewiston, NY 14092

Dear Supervisor [REDACTED]

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.

c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.

d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.

e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED]

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED] Mayor  
Village of Lewiston  
[REDACTED]  
Lewiston, NY 14092

Dear Mayor Collesano:

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.

Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

[illegible]



## DEPARTMENT OF THE ARMY

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

REPLY TO:

JUN 12 2013

Executive Office

SUBJECT: Public Release of the *Lake Ontario Ordnance Works (LOOW)*  
*Occidental Chemical Corporation Property (OCCP) Remedial Investigation (RI) Report*,  
Lewiston, New York

Honorable [REDACTED], Supervisor  
Town of Wilson  
[REDACTED]  
Wilson, NY 14172

Dear Supervisor [REDACTED]

The U.S. Army Corps of Engineers Buffalo District is pleased to announce the availability of the *Remedial Investigation Report for the Occidental Chemical Corporation Property (OCCP) at Formerly Used Defense Site Lake Ontario Ordnance Works (LOOW) at* <http://www.lrb.usace.army.mil/Missions/HTRW/DERPFUDS/LakeOntarioOrdnanceWorks.aspx> on the Buffalo District website.

The report was prepared as part of the Corps' environmental response project conducted under the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS) in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. The purpose of this investigation was to define the nature and extent of Department of Defense (DoD) contaminants within the Occidental Chemical Corporation Property (OCCP) portion of the former LOOW Site, currently owned by the Occidental Chemical Corporation. The objectives of this investigation were: (1) to determine if DoD contaminants were present at the OCCP and (2) to assess risk to human health and/or the environment from DoD contaminants at the OCCP.

Main findings from the research and investigations performed for the OCCP Remedial Investigation are as follows:

a. Based on the Human Health Risk Assessment (HHRA), there are no identified impacts related to human receptors or the environment at Area of Concern (AOC) 2, AOC 3, AOC 4, AOC 5, and AOC 6. No further environmental action or management is recommended for these AOCs.



Office: Executive Office

-2-

Subject: Public Release of the LOOW Occidental Chemical Corporation Property (OCCP)  
Remedial Investigation (RI) Report

- b. Risk associated with explosive residue [primarily trinitrotoluene (TNT)], lead, and hexavalent chromium in soil at AOC 1 requires further environmental action and management.
- c. Re-sampling and analysis for hexavalent chromium is recommended due to uncertainty with the analytical results for this constituent.
- d. The area of impacted soil in AOC 1 is approximately 3,300 square yards.
- e. Based on the Screening Level Ecological Risk Assessment (SLERA), there are no identified impacts to ecological receptors at the OCCP.

A feasibility study will be performed for soil, fill material, and redistributed soil associated with AOC 1.

This letter is also being distributed to the attached list of elected officials, agency representatives, and property owners. If you require additional information on our project at the former LOOW Site, please contact [REDACTED], DERP-FUDS Project Manager for the former LOOW Site, at [REDACTED].

Sincerely,

[REDACTED]

Lieutenant Colonel, Corps of Engineers  
District Commander

Enclosure

Distribution List:

[illegible]