

USEPA. 2016a. Superfund Site Profile Diamond Alkali. Accessed On-Line September 24, 2016



EPA Superfund Program: DIAMOND ALKALI CO., NEWARK, NJ

EPA's Superfund Program: Making a Visible Difference

The Diamond Alkali Superfund site includes the former manufacturing facility at 80-120 Lister Avenue in Newark, New Jersey, the Lower Passaic River Study Area (LPRSA), the Newark Bay Study Area and the areal extent of contamination. The LPRSA includes the 17-mile tidal stretch of the river from Dundee Dam to Newark Bay, and tributaries. The Newark Bay Study Area includes Newark Bay and portions of the Hackensack River, Arthur Kill and Kill van Kull. The area surrounding the site is densely populated and heavily industrialized.

Production of DDT and other chemical products began at 80 Lister Avenue in the 1940s. In the 1950s and 1960s, the Diamond Alkali Company owned and operated the facility, manufacturing agricultural chemicals, including the herbicides used in the defoliant known as "Agent Orange," among other products. A by-product of these manufacturing processes was 2,3,7,8-TCDD (dioxin), an extremely toxic chemical. In 1971, Diamond Alkali sold 80 Lister Avenue.

In 1983, sampling by the state of New Jersey and the EPA at and near 80 Lister Avenue and in the river revealed high levels of dioxin. The site was listed on the Superfund National Priorities List (NPL) in 1984. Dioxin, pesticides and other hazardous substances were found in the soil and groundwater at 80-120 Lister Avenue; and dioxin, polychlorinated biphenyls (PCBs), metals and pesticides were found in sediment in the Lower Passaic River.

New Jersey prohibits consumption of fish or shellfish from the Lower Passaic River and Newark Bay. Cleanup activities to date include immediate actions at 80-120 Lister Avenue and surrounding properties, removal actions in the Lower Passaic River, and the interim remedy for 80-120 Lister Avenue. In March 2016, EPA selected the remedy for the lower 8.3 miles of the Lower Passaic River. Additional investigations and planning for long-term cleanup are ongoing.

TOPICS IN FOCUS

The Record of Decision for the Lower 8 Miles of the Lower Passaic River can be found at:

Lower Passaic River 2016 ROD

Protecting Human Health

Protecting The Environment

- EPA’s Involvement at this Site
- What is the current site status?
- What's being done to protect human health and the environment?

- Staying Informed and Involved
- What are the risks at the site?
- Redevelopment Activity

SITE STATUS

<p>Construction Complete?</p> <hr style="border: 1px solid green;"/> <p>No</p>
<p>Human Exposure Status</p> <hr style="border: 1px solid green;"/> <p>Not Under Control</p>
<p>Contaminated Ground Water Status</p> <hr style="border: 1px solid green;"/> <p>Under Control</p>
<p>Site-Wide Ready for Anticipated Use?</p> <hr style="border: 1px solid green;"/> <p>No</p>

Stay Updated

Regional News

Public Participation Opportunities:

There are no meetings or comment periods scheduled at this time.

Public Information Repositories

Site Reports and Documents

- Administrative Records
- Additional Reports and Documents

Site Facts

NPL Status: Final

Street Address:

80 LISTER AVE, NEWARK, NJ 07105

Congressional District: 08

EPA ID: NJD980528996

Contaminant Information

Site Contacts:

- **Community Involvement Coordinator (CIC):**
Dave Kluesner
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- **Remedial Project Manager (RPM):**
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Superfund

Contaminants of Concern at DIAMOND ALKALI CO.

(EPA ID: NJD980528996)

The data and content on this page were last updated on Saturday, September 17, 2016.

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OtherNames	
Contaminantsof Concern	
OperableUnits	

The chemical substances (i.e., hazardous substances, pollutants, or contaminants) listed below were identified as contaminants of concern (COC) for the site. COCs are the chemical substances found at the site that the EPA has determined pose an unacceptable risk to human health or the environment. These are the substances that are addressed by cleanup actions at the site. Identifying COCs is a process where the EPA identifies people and ecological resources that could be exposed to contamination found at the site, determines the amount and type of contaminants present, and identifies the possible negative human health or ecological effects that could result from contact with the contaminants.

see glossary for definitions of contaminated media and operable units (OUs) »

The following ATSDR Profile links exit the site [Exit](#)

CAS ##	Contaminant Name	Contaminated Media	Area of Site Found (OU)	More Information
93-76-5	2,4,5-TRICHLOR OPHENOXYACE TIC ACID	Ground Water	80 AND 120 LISTER AVENUE (01)	
93-76-5	2,4,5-TRICHLOR OPHENOXYACE TIC ACID	Soil	80 AND 120 LISTER AVENUE (01)	

CAS #	Contaminant Name	Contaminated Media	Address of Site Found	More Information
88-06-2	2,4,6-TRICHLOROPHENOL	Ground Water	80 AND 120 LISTER AVENUE (01)	
94-75-7	2,4-D [ACETIC ACID (2,4-DICHLOROPHENOXY)-]	Ground Water	80 AND 120 LISTER AVENUE (01)	
94-75-7	2,4-D [ACETIC ACID (2,4-DICHLOROPHENOXY)-]	Soil	80 AND 120 LISTER AVENUE (01)	
120-83-2	2,4-DICHLOROPHENOL	Ground Water	80 AND 120 LISTER AVENUE (01)	
120-83-2	2,4-DICHLOROPHENOL	Soil	80 AND 120 LISTER AVENUE (01)	
50-29-3	4,4-DDT	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
50-29-3	4,4-DDT	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
319-84-6	ALPHA-BHC	Ground Water	80 AND 120 LISTER AVENUE (01)	
319-84-6	ALPHA-BHC	Soil	80 AND 120 LISTER AVENUE (01)	
71-43-2	BENZENE	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile

CAS #	Contaminant Name	Contaminated Media	Area of Site Found (OU)	More Information
71-43-2	BENZENE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
319-85-7	BETA-BHC	Ground Water	80 AND 120 LISTER AVENUE (01)	
319-85-7	BETA-BHC	Soil	80 AND 120 LISTER AVENUE (01)	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
108-90-7	CHLOROBENZENE	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
108-90-7	CHLOROBENZENE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
72-54-8	DDD	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
50-29-3	DDT	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
75-09-2	DICHLOROMETHANE	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile

CAS #	Contaminant Name	Contaminated Media	Area of Site Found (OU)	More Information
75-09-2	DICHLOROMETHANE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
TBD-00000004	DIOXINS (CHLORINATED DIBENZODIOXINS)	Debris	PASSAIC RIVER STUDY - LOWER (02)	
TBD-00000004	DIOXINS (CHLORINATED DIBENZODIOXINS)	Soil	PASSAIC RIVER STUDY - LOWER (02)	
118-74-1	HEXACHLORO BENZENE	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
118-74-1	HEXACHLORO BENZENE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
75-09-2	METHYLENE CHLORIDE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
TBD-00000009	ORGANICS	Ground Water	80 AND 120 LISTER AVENUE (01)	
TBD-00000009	ORGANICS	Soil	80 AND 120 LISTER AVENUE (01)	
129-00-0	PYRENE	Ground Water	80 AND 120 LISTER AVENUE (01)	

CAS #	Contaminant Name	Contaminated Media	Area of Site Found (OU)	More Information
129-00-0	PYRENE	Soil	80 AND 120 LISTER AVENUE (01)	
108-88-3	TOLUENE	Ground Water	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
108-88-3	TOLUENE	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile
12185-10-3	WHITE PHOSPHORUS	Soil	PASSAIC RIVER STUDY - LOWER (02)	
1330-20-7	XYLENES	Soil	80 AND 120 LISTER AVENUE (01)	ATSDR Profile

About CAS

Chemical Abstracts Service (CAS) is a division of the American Chemical Society. CAS builds and maintains the largest and most current database of chemical substance information in the world. These chemical substances are labeled with CAS Registry Numbers® (CASRNs or CAS Numbers) and are used internationally as unique numeric identifiers for a single substance. They have no chemical significance and, because they are widely used, are a link to a wealth of information about a specific chemical substance. They are provided here for reference purposes to hopefully aide you in researching the respective chemical. For more information, visit the CAS Web site. [Exit](#)

About ATSDR

The Agency for Toxic Substances and Disease Registry (ATSDR) is an agency of the U.S. Department of Health and Human Services. ATSDR is charged under the Superfund law (CERCLA) to assess the presence and nature of health hazards at specific Superfund sites, to help prevent or reduce further exposure and the illnesses that result from such exposures, and to expand the knowledge base about health effects from exposure to hazardous substances. ATSDR maintains a series of fact sheets and profiles about contaminants of concern commonly found at Superfund sites. Links to these resources are provided above when available. For more information, visit the ATSDR Web site. [Exit](#)

About EPA's IRIS

The Integrated Risk Information System (IRIS), prepared and maintained by the U.S. Environmental Protection Agency (U.S. EPA), is an electronic database containing information on human health effects that may result from exposure to various chemicals in the environment. IRIS was initially developed for EPA staff in response to a growing demand for consistent information on chemical substances for use in risk assessments, decision-making and regulatory activities. The information in IRIS is intended for those without extensive training in toxicology, but with some knowledge of health sciences. For more information, visit the EPA IRIS Web site.

About EPA's SRS

The Substance Registry System (SRS) is the Environmental Protection Agency's (EPA) central system for information about regulated and monitored substances. The system provides a common basis for identification of chemicals, biological organisms, and other substances listed in EPA regulations and data systems, as well as substances of interest from other sources, such as publications. The system does not provide health hazard information at this time. For more information, visit the EPA SRS Web site.

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

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