

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>MALLINCKRODT BAKER (formerly J.T. Baker)</u>	ProjectID: 02-15
Last Updated:	08/11/98	
City:	Phillipsburg	
County:	Warren	
State:	NJ	
Country:	USA	
Bodies of Water:	Delaware River	
US EPA Region:	II	
Status (Active, Complete, or Monitoring Only):	Complete	
Date On NPL:	N/A	
ROD/ESD Date:	N/A	
Operable Unit:	N/A	
Areas of Concern (length or acres):	Nearshore hotspot of about one-half acre in Delaware River.	
Other Characteristics of Water Body:	Water depth at nearshore hot spot, 4 to 5 feet.	
Contaminants of Concern:	DDT, lead, mercury, cadmium	
Source of Contamination:	Process wastewaters from facility used for the manufacture of pesticide.	
Contaminated Area Physical Characteristics:	Localized near-shore area; virgin river bed area (no excavation previously). Approximate target area was 75' x 300' (about one-half acre).	
Type of Regulatory Action:	Final.	
Overall Status Summary:	Environmental Site Investigation performed from 1984 to 1986 which included nearshore areas of the Delaware River; river sediments were found to be contaminated with DDT, lead, mercury, cadmium. Excavation of sediments was performed over a six-week period in 1993; a bladder-type water structure and stone dam were used to isolate the area to be excavated; a pump and piping system supplemented by 126 well points controlled the infiltration of water to the excavation area. Sediments were removed using excavators and trucked to a J.T. Baker landfill 6.5 miles from the site. Infiltration water into the excavation area was treated prior to discharge back to river. Original target was to remove sediments to 10 ppm DDT; J.T. Baker went further and removed sediments to bedrock to extent practicable.	
Remedial Action Planned:	<input checked="" type="checkbox"/>	
Risk Assessment:	<input type="checkbox"/>	
Remedial Action Implemented:	<input checked="" type="checkbox"/>	
Status of Dredging	<input type="checkbox"/>	
PRPs:	<input checked="" type="checkbox"/>	
Contacts:	<input checked="" type="checkbox"/>	
References:	<input checked="" type="checkbox"/>	
Modeling:	<input type="checkbox"/>	

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<i>Project Name</i>	<i><u>MALLINCKRODT BAKER (formerly J.T. Baker)</u></i>	<i>ProjectID:</i> 02-15
<i>Last Updated:</i>	08/11/98	
<i>Fishing Advisory:</i>	<input checked="" type="checkbox"/>	
<i>Key Conditions:</i>	dedicated landfill or CDF	

REMEDIAL ACTION PLANNED

Project Name	<u>MALLINCKRODT BAKER (formerly J.T. Baker)</u>	ProjectID: 02-15
Last Updated:	08/11/98	
Target Sediment Cleanup Standards (TSCS):	10 ppm DDT	
How TSCS Established:	NJ DEP requirement; attempt to remove 90% of the contamination. Primarily a risk management decision to delineate the extent of excavation.	
Target Bank and Floodplain Cleanup Levels (if applicable):	N/A	
Other Target:	N/A	
Environmental Sample Data References:	<ul style="list-style-type: none">• Sediment:• Water:• Fish:	
Estimated Target Volume:		
Planned Disposal Method:		
Estimated Calendar Time to Implement Remedy:		
Estimated Time to Implement Remedy:		
Estimated Cost to Implement Remedy:		
Stated Remedial Action Objectives (and Source):	Dry excavation of contaminated sediments to remove approximately 90% of the contamination.	
Measures of Success to be Used:	Meet the 10 ppm DDT target cleanup level.	
Planned Monitoring and Restoration:	Treated water discharged to the Delaware River and sampled daily in accordance with permit requirements; no restoration plans available.	
Agency Position on Sediment Removal (and Source):		

REMEDIAL ACTION IMPLEMENTED

Project Name:	<u>MALLINCKRODT BAKER (formerly J.T. Baker)</u>	ProjectID: 02-15
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Physical Target:	Single 0.5 acre area divided into 3 smaller areas; north, middle, and south.	
Goals:	Remove sediment materials to meet 10 ppm DDT	
Primary Contractor:	OBG Technical Services	
Other Contractors:		
Generic Remediation Method:	Dry excavation	
Equipment:	Excavators; large wheel loaders for transport from excavation area to trucks.	
Material Handling:	Excavated sediments were trucked from the river to the disposal site; 235 truck loads (of approx. 15 - 18 cy each) were disposed.	
Volume Removed:	3,500 - 4,000 cy	
Calendar Time:	July 16 through August 31, 1993.	
Time To Implement:	6.5 weeks	
Total Cost:	\$1.2 million; \$350 - 400 per cy.	
Dredging Cost:	N/A	
Disposal of Sediment:	Excavated sediment disposed as non-hazardous (per NJ DEP) in existing J.T. Baker landfill located 6.5 miles from site; existing landfill material (sludge from on-site WWTP) was stabilized using flyash and cement for use as landfill substrate; stabilized substrate material covered with 60 mil heat-sealed PVC liner and one foot of sand prior to disposal of sediment on top.	
Volume of Water:	Not available	
Method of Water Treatment:	Water pumped from excavation area was sent to a mobile treatment system prior to discharge to the Delaware River as follows: excavation water pumped to two 2500 gallon holding tanks; transferred to one 500 gallon mixing tank where polymer was added; transferred to one 70,000 gallon modular tank prior to filtering. Filtering consisted of: series of 10 micron filter bags; activated carbon; series of 5 micron filter bags. Treated water discharged to Delaware River, under permit.	
Water Discharge Limit:	Not available	
Air Monitoring During Remediation:	None performed	
Water Monitoring During Remediation:	Treated water sampled daily and discharged to the Delaware River.	
Outcome:	Sediment was removed to bedrock where practicable and to 10 ppm DDT otherwise and river flow restored. Field verification samples were analyzed using a mobile lab; final verification samples were sent to a certified laboratory. After every 500 cy of sediment brought to landfill, 5 sediment samples were collected to ensure sediment met non-hazardous classification.	
Restoration and Post-Monitoring:	None Identified	
Site-Specific Difficulties:	None Identified	

REMEDIAL ACTION IMPLEMENTED

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Monitoring Data	Not available	
References:		

- **Sediment**
- **Water:**
- **Fish:**

POTENTIALLY RESPONSIBLE PARTIES

Project Name MALLINCKRODT BAKER (formerly J.T. Baker)

ProjectID: 02-15

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **MALLINCKRODT BAKER (formerly J.T. Baker)**

ProjectID: 02-15

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name MALLINCKRODT BAKER (formerly J.T. Baker)

ProjectID: 02-15

Reference Type: A **ReferenceID:** 884
Title: *Fast-Track Removal and Disposal of River Sediment*
Location: AEM
Category: Close-Out Report
Prepared by/Author: (1) David M. Schramm, (2) Marc J. Dent, (3) James Cotter
Preparer/Author Address: (1) O'Brien & Gere Technical Services, Inc.
Plymouth Meeting, PA
(2) O'Brien & Gere Engineers, Inc.
Syracuse, NY
(3) J. T. Baker, Inc.
Phillipsburg, NJ
Prepared For: Superfund XV Conference and Exhibition
Date Published: December 1994
Key Words and Phrases:

Reference Type: K **ReferenceID:** 1
Title: *River Clean Up (video)*
Location: AEM
Category: Site Update
Prepared by/Author: ShootersInc.
Preparer/Author Address: Suite 302, 2428 Route 38
Cherry Hill, NJ 08002
Prepared For: J.T. Baker (Stephanie Paterson)
Date Published: September 29, 1993
Key Words and Phrases:

Reference Type: R **ReferenceID:** 10
Title: *Letter to PRP re: Case Histories: Contaminated Sediment Sites*
Location: AEM
Category: Site Update
Prepared by/Author: AEM, Inc.
Preparer/Author Address: Malvern, PA 19355
Prepared For: Mallinckrodt Baker, submitted to
Date Published: August 14, 1998
Key Words and Phrases:

REFERENCES

Project Name **MALLINCKRODT BAKER (formerly J.T. Baker)**

ProjectID: 02-15

Reference Type: R

ReferenceID: 30

Title: ***Letter to PRP re: Case Histories: Contaminated Sediment Sites
(with oral response [6/29/99] from Mallinckrodt Baker)***

Location: AEM

Category: Site Update

Prepared by/Author: AEM, inc. with oral response [6/29/99] from Mallinckrodt Baker

**Preparer/Author
Address:** Malvern, PA 19355

Prepared For: Mallinckrodt Baker, submitted to

Date Published: May 13, 1999

**Key Words and
Phrases:**

FISH ADVISORIES

Project Name **MALLINCKRODT BAKER (formerly J.T. Baker)**

ProjectID: 02-15

<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 470
<i>Extent:</i>	Easton to Trenton	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	bass-largemouth	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3367
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548
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<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 471
<i>Extent:</i>	Easton to Trenton	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	pickerel-chain	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3367
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548
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<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 472
<i>Extent:</i>	Easton to Trenton	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	pickerel-chain	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3367
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548

FISH ADVISORIES

Project Name **MALLINCKRODT BAKER (formerly J.T. Baker)**

ProjectID: 02-15

<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 473
<i>Extent:</i>	Trenton to Camden	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	bass-largemouth	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3368
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548
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<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 474
<i>Extent:</i>	Trenton to Camden	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	pickerel-chain	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3368
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548
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<i>Advisory:</i>	Delaware River	<i>AdvisoryID:</i> 475
<i>Extent:</i>	Trenton to Camden	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	pickerel-chain	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 3368
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Bruce Ruppel	<i>Contact Number:</i> 609-984-6548
