1997 Consent Decree
Sparrows Point Steel Mill

Public Meeting
June 24, 2010

Site History

1887 - First Furnace at Sparrows Point Built

1916 - Bethlehem Steel Corporation Purchases Facility

1930 – Coke Ovens Begin Operation

1950 – Tin Mill Canal Construction Begins

1959 – Peak Production at Facility
Requires Operation of:

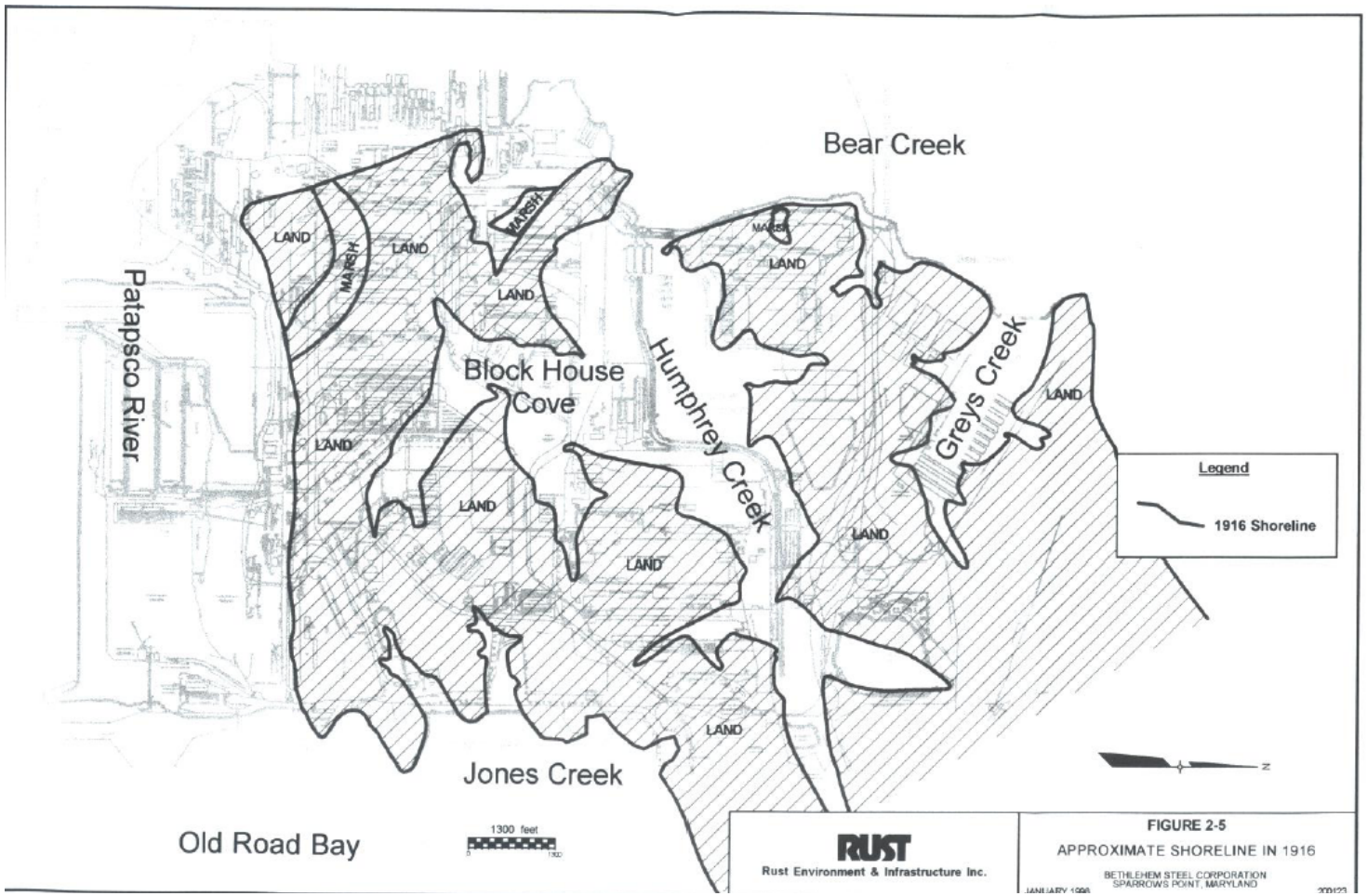
- 12 Coke-oven Batteries
- 10 Blast Furnaces
- 4 Open-hearth Furnaces

1970 – Tin Mill Canal Construction Cease

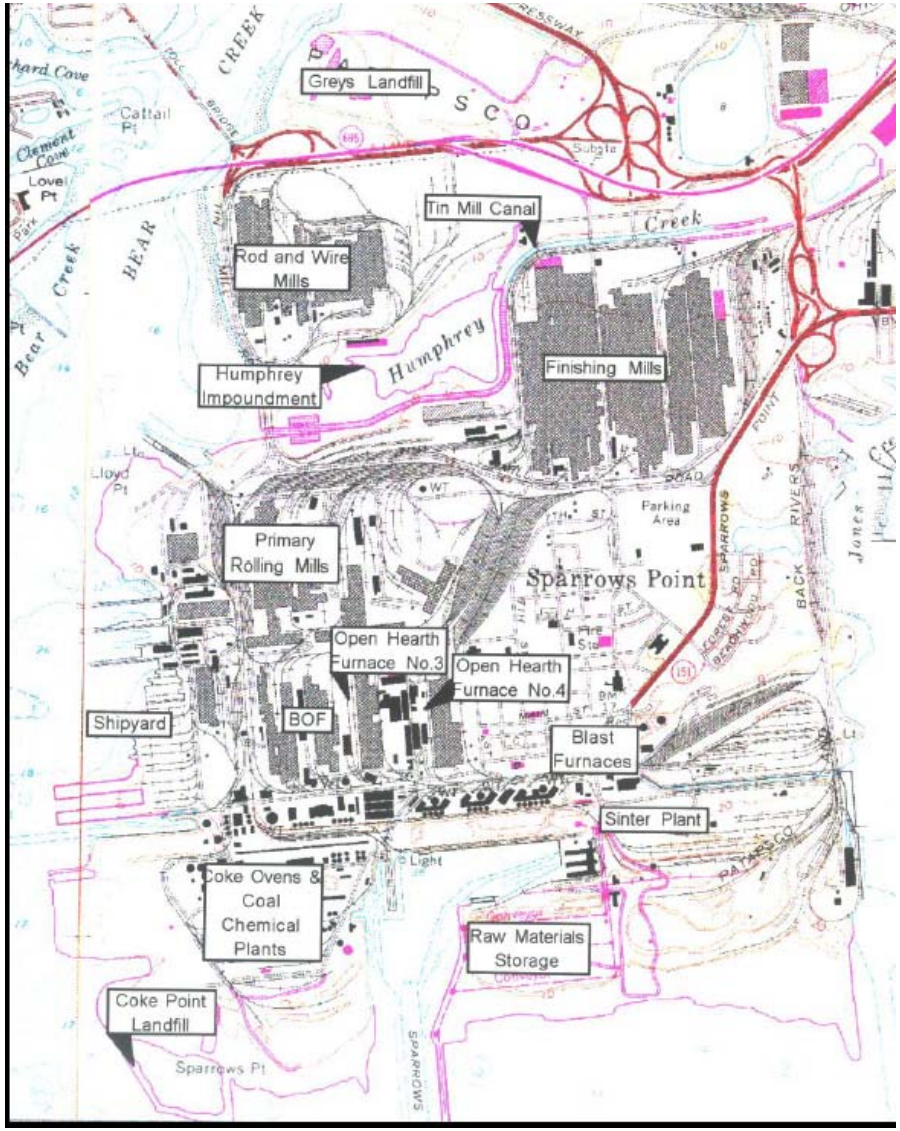
1991 - Coke Ovens Operations Cease

Present Day - L Blast Furnace and Basic Oxygen Furnace (BOF) Operating

1916 Shoreline Map



Sparrows Point Steel Mill Historical Conditions



Regulatory History

- Resource Conservation and Recovery Act (RCRA) 1976
- Consent Decree Under Authority of Section 3008 (h)
- Hazardous and Solid Waste Amendments 1984
- Clean Air Act 1970, Amended 1990
- Maryland Department of the Environment 1987

1997 Consent Decree

- October 1997-United States of America and State of Maryland Department of the Environment v. Bethlehem Steel Corporation; Docket No. JFM-97-558 and JFM-97-559
- Consent Decree Binds EPA, MDE, Bethlehem Steel Corporation And All Future Owners To Complete Specific Tasks
  - Provides Technical Guidance And A “Rulebook” For All Participants

1997 Consent Decree Tasks

CORRECTIVE MEASURES (EPA LEAD)

- **Site Wide Investigation (RCRA Assessment)**
  - **Human Health Risk Assessment**
  - **Ecological Risk Assessment (on and off-site)**
  - **Groundwater Assessment**
- **Interim Measures**
- **Corrective Measures Study (CMS)**

WASTE MINIMIZATION
(EPA/MDE WITH CURRENT AND PREVIOUS OWNERS)

- **Inspection of all Sumps, Above Ground Tanks and Trenches**
- **Evaluate Tin Mill Canal Discharges**
- **Beneficial Reuse of Strong Caustic Solutions at Humphreys Creek Wastewater Treatment Plant**
- **Recycle Basic Oxygen Furnace (BOF) and Blast Furnace Air Emission Treatment Sludge**
- **Recycle Humphreys Creek Wastewater Treatment Plant Sludge**

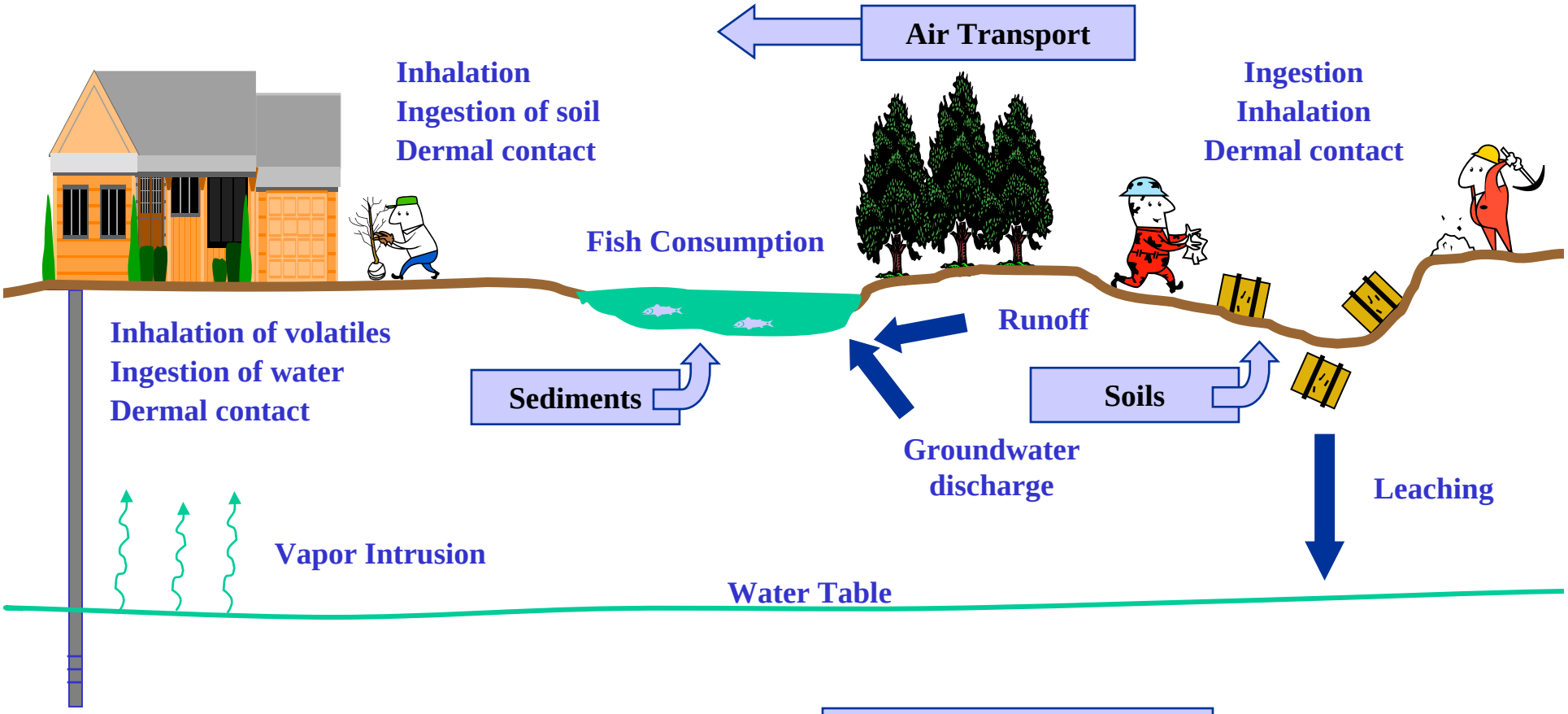
1997 Consent Decree Tasks (Continued)

COMPLIANCE (MDE LEAD)

- **Compliance Requirements-Air**
  - **Visible Emissions from Basic Oxygen Furnace (BOF) Shop Roof Monitor**
  - **Kish Reduction**

- **Compliance Requirements-Solid Waste Landfills (Greys and Coke Point)**
  - **Operations manual**
  - **Engineering Study**
  - **Compliance Plan**
  - **Monitoring**
  - **Closure Plan**

Site Wide Investigation of Exposure Pathways



A Few Consent Decree Milestones

- Description of Current Conditions Report- January 1998
- Interim Measure Rod and Wire Mill Pump and Treat System Operational- September 2001
- Completion of Kish Reduction Plan-2004
- Sump/Tank Work Plan-Repairs Completed-2004/with ongoing inspection and repairs
- Site Wide Investigation Report of Nature and Extent of Releases to Groundwater from Special Study Areas-January 2005
- CA725 Facility Investigation and Human Health Risk Evaluation (HHRE) Findings- June 2005
- Greys Landfill Stabilization and Compliance Measures Completed-December 2008

*See Table 1 and Table 2 in the 2008 Annual Report for a more comprehensive list of submittals

Important Dates in Ownership

2001 – Bethlehem Steel declares bankruptcy

2003 – International Steel Corporation (ISG) acquires Steel Mill

2005 – ISG acquired by Mittal

2006 – Mittal merges with Arcelor

2007 – Federal Court orders sale of Steel Mill in February

2008 – Severstal acquires Sparrows Point Steel Mill on May 8th

For Additional Information:

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