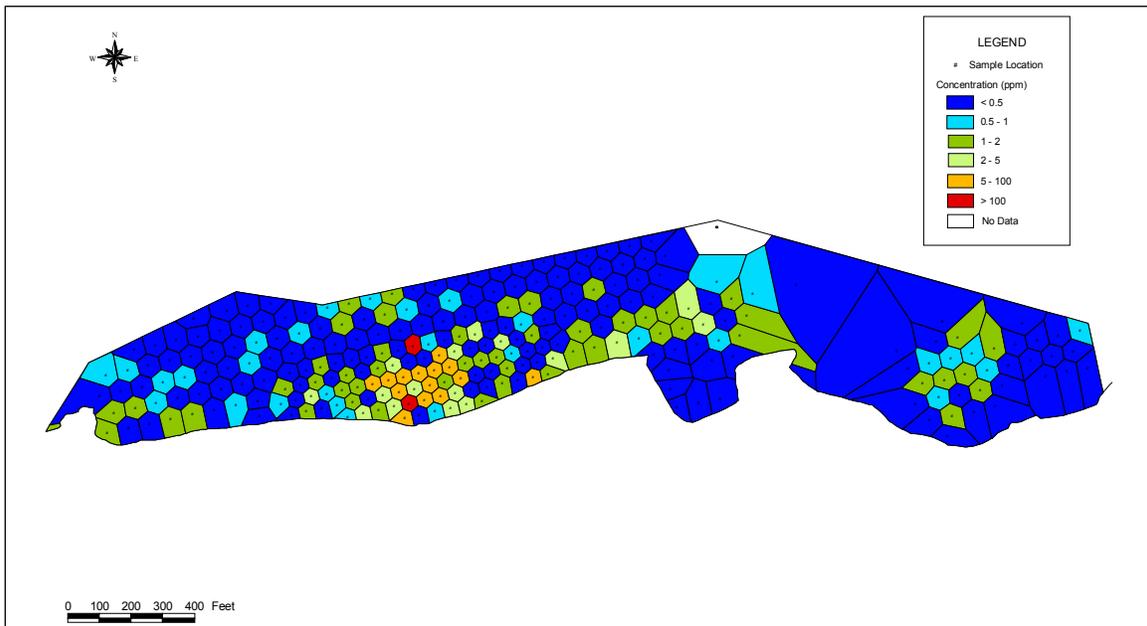
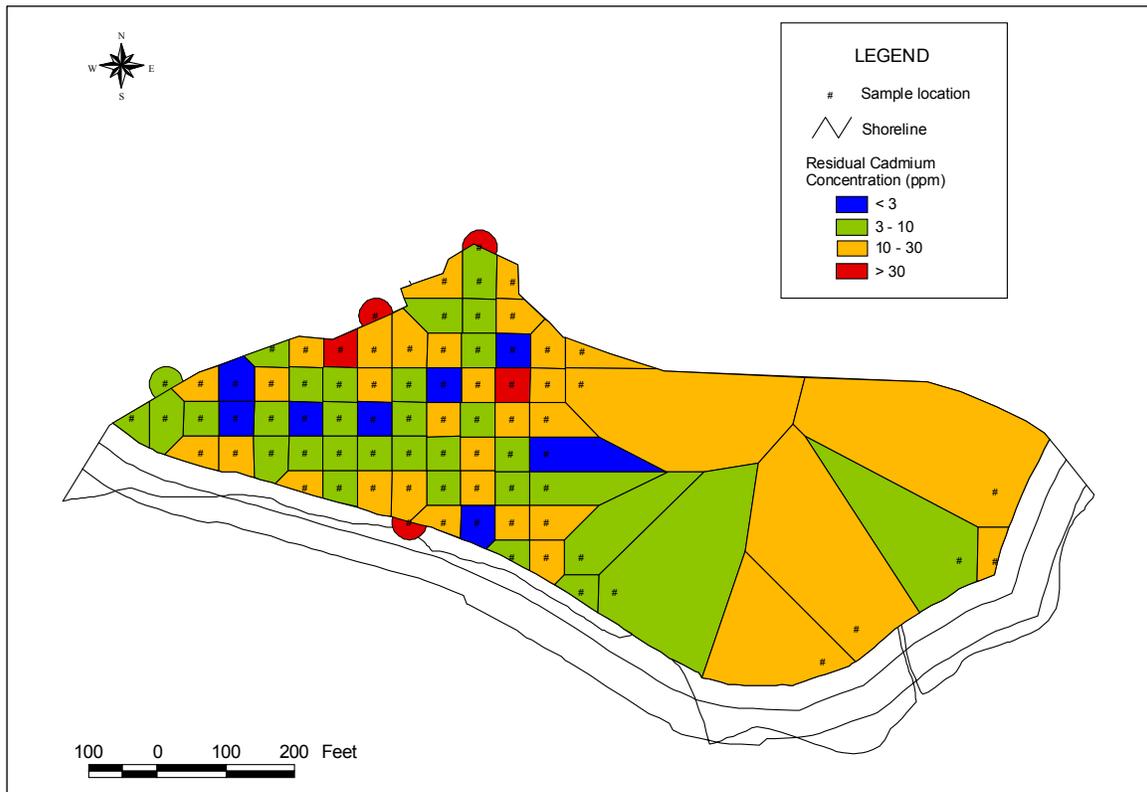


Figures

**Figure 2-1
Polygonal Declustering for Case Study Sites**

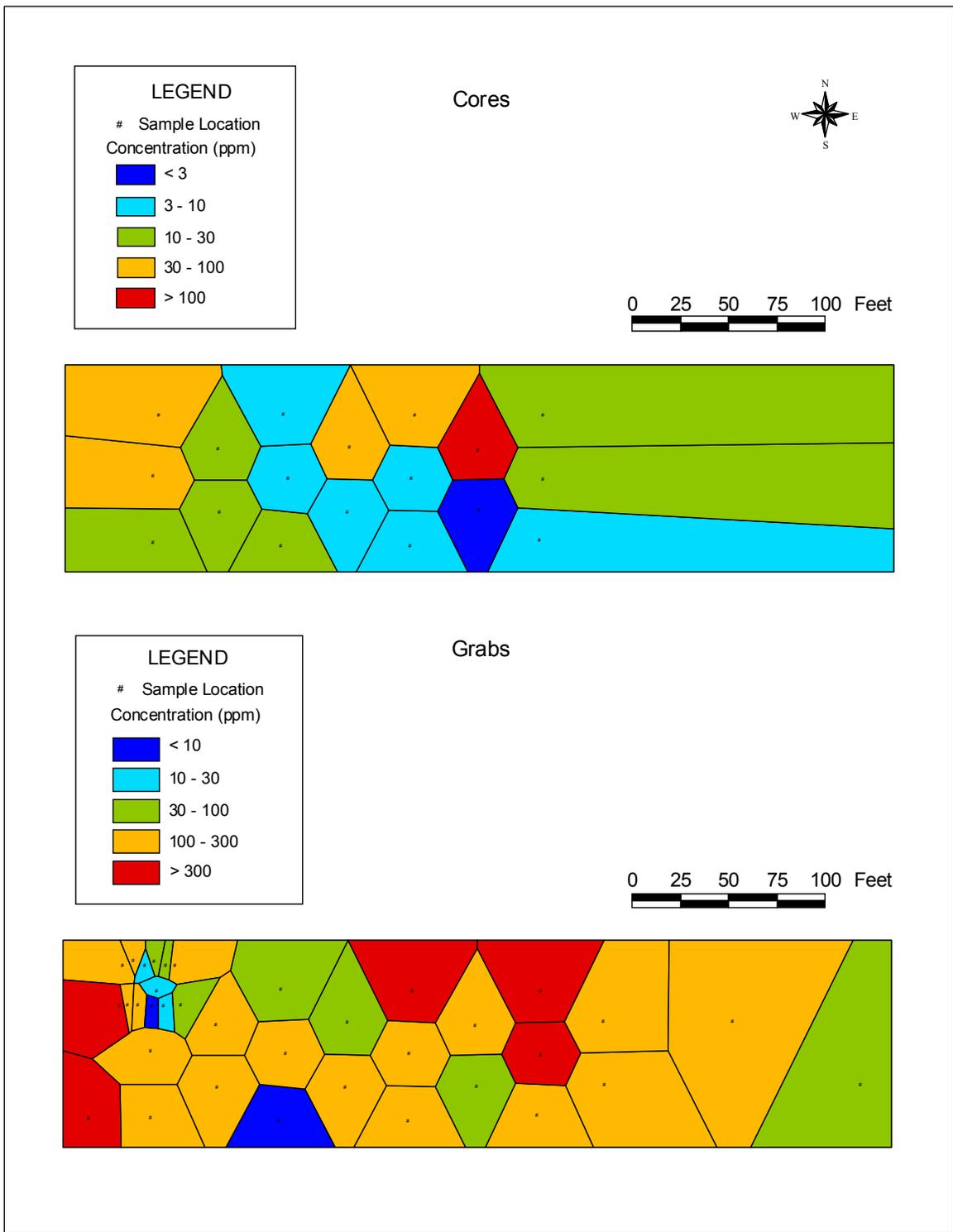


Reynolds Metals



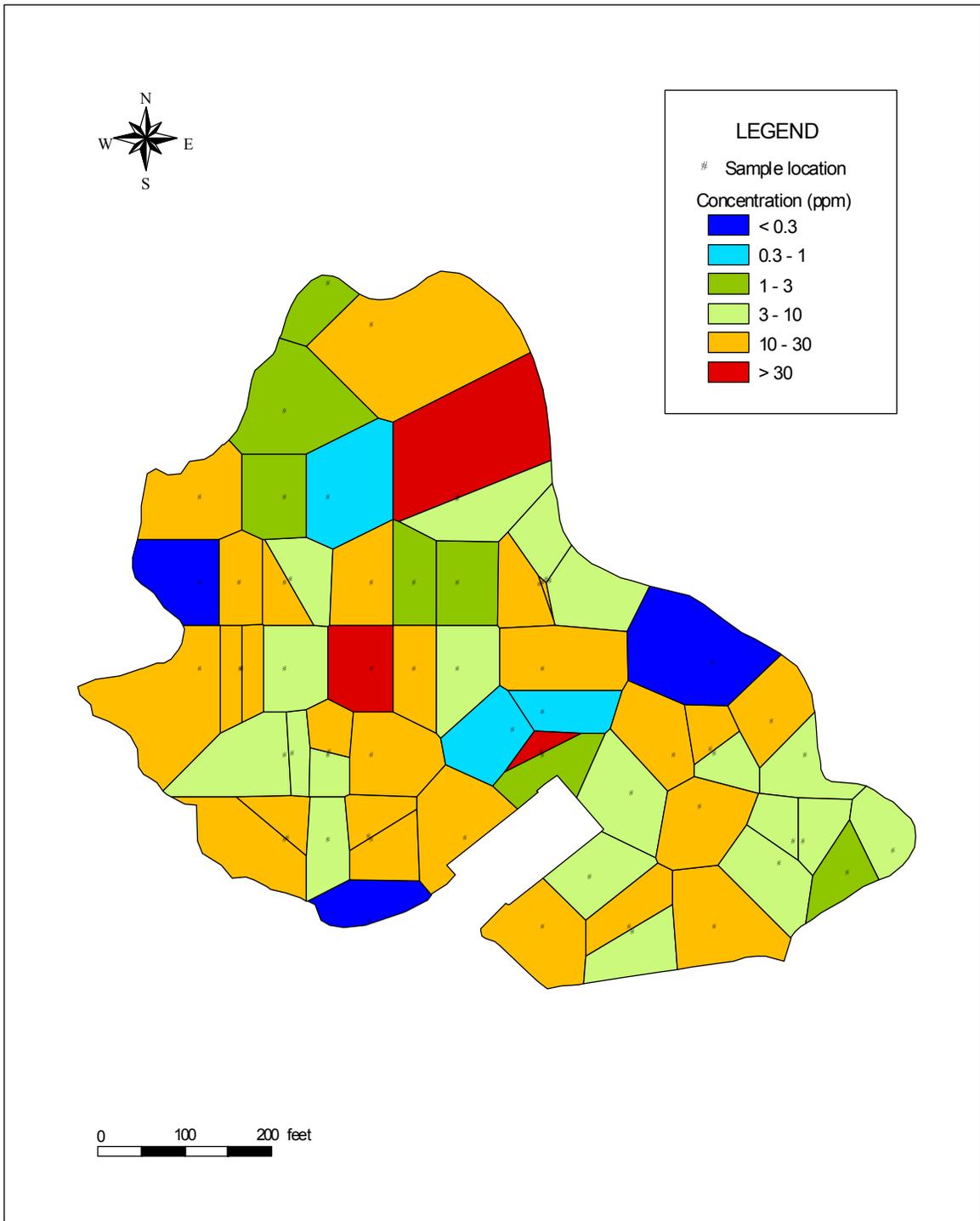
Marathon Battery East Foundry Cove

**Figure 2-1
Polygonal Declustering for Case Study Sites**



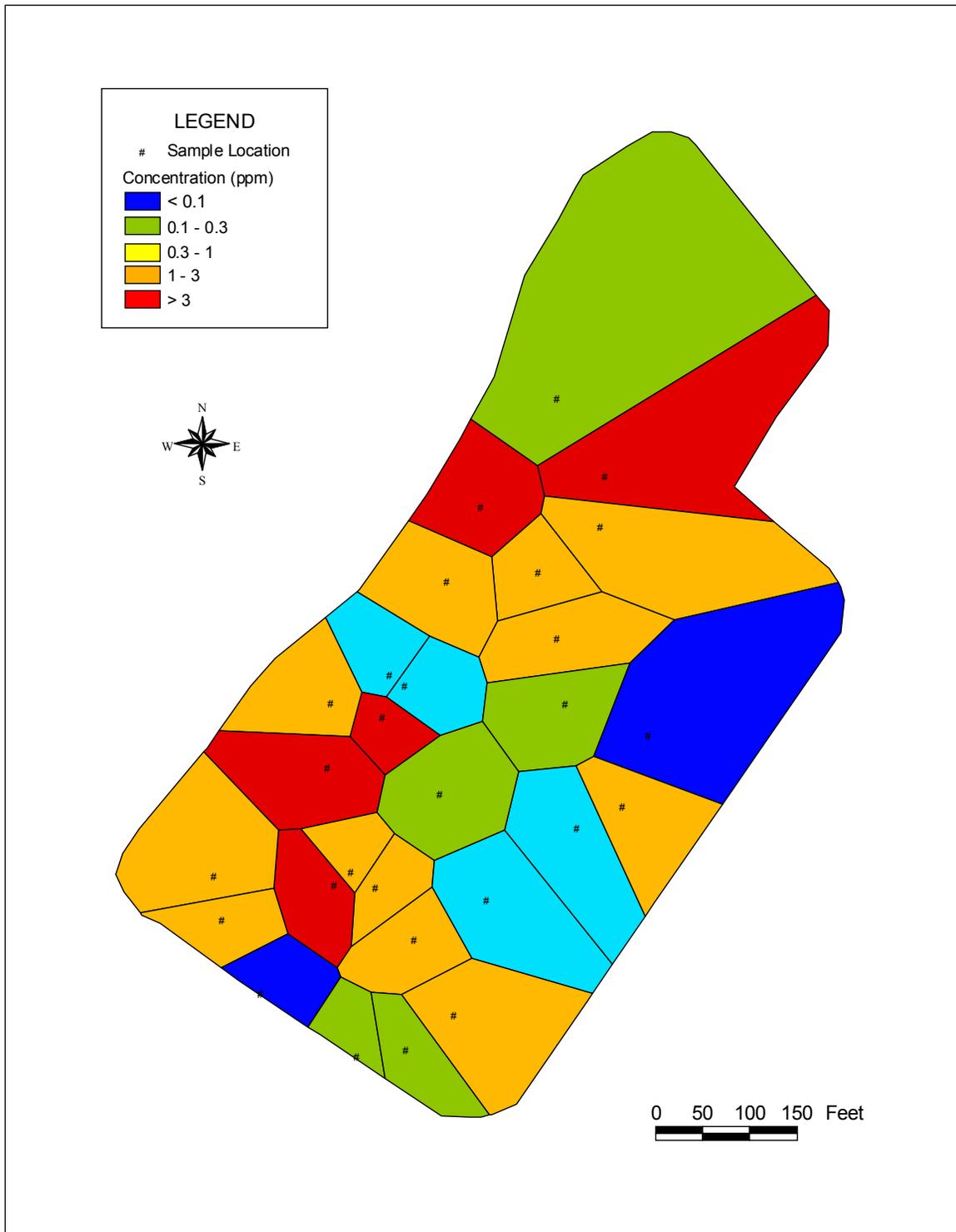
New Bedford Harbor

Figure 2-1
Polygonal Declustering for Case Study Sites



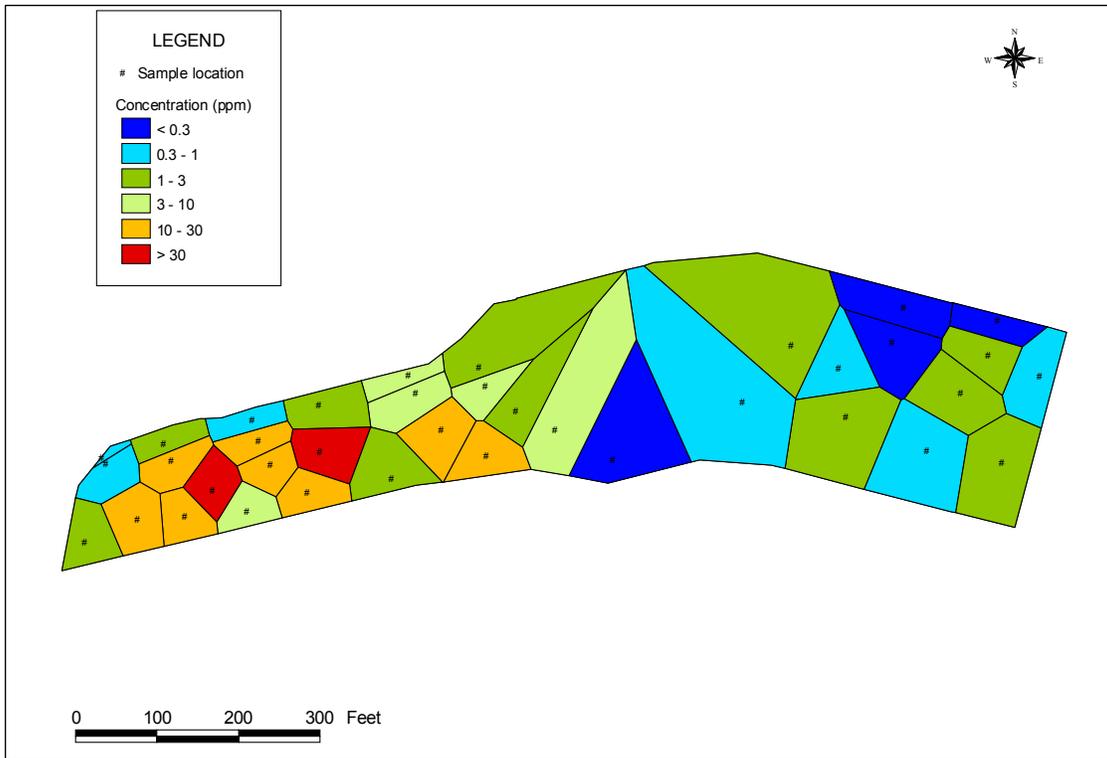
Cumberland Bay

Figure 2-1
Polygonal Declustering for Case Study Sites

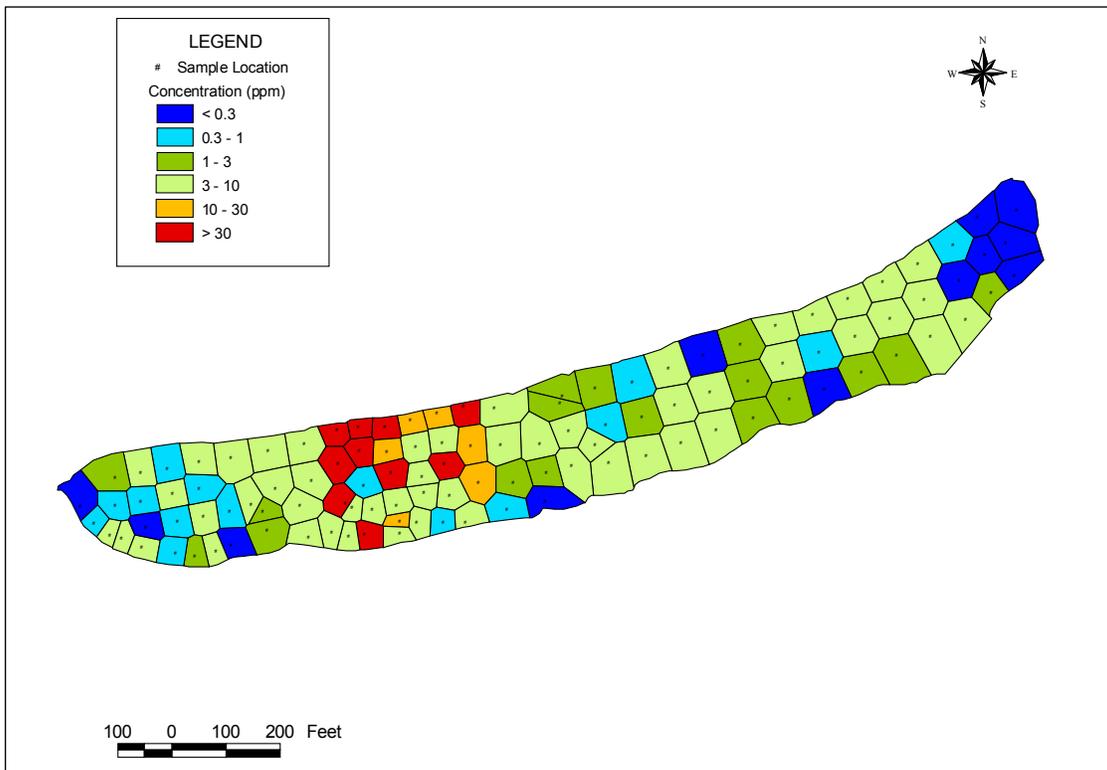


Fox River SMUs 56/57

**Figure 2-1
Polygonal Declustering for Case Study Sites**



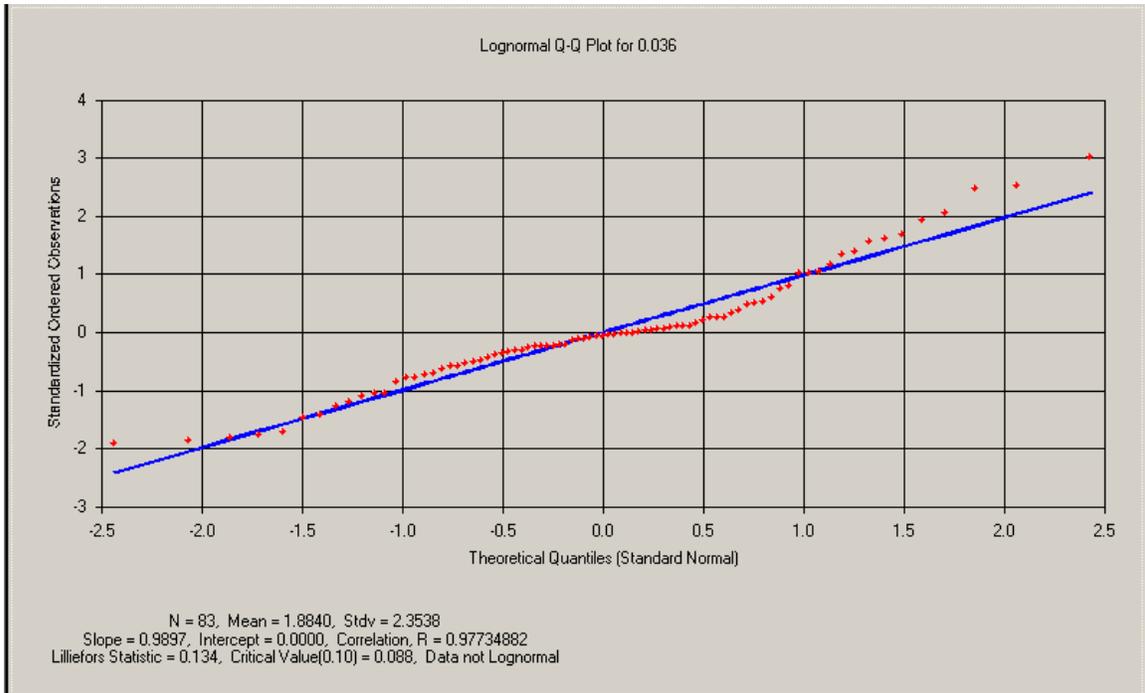
Fox River Deposition N



GM Massena

Figure 2-2
Q-Q Plots – Test for Lognormal or Approximately Lognormal
Distributions (alpha=0.10)

GM Massena Pass 1



GM Massena Pass 2

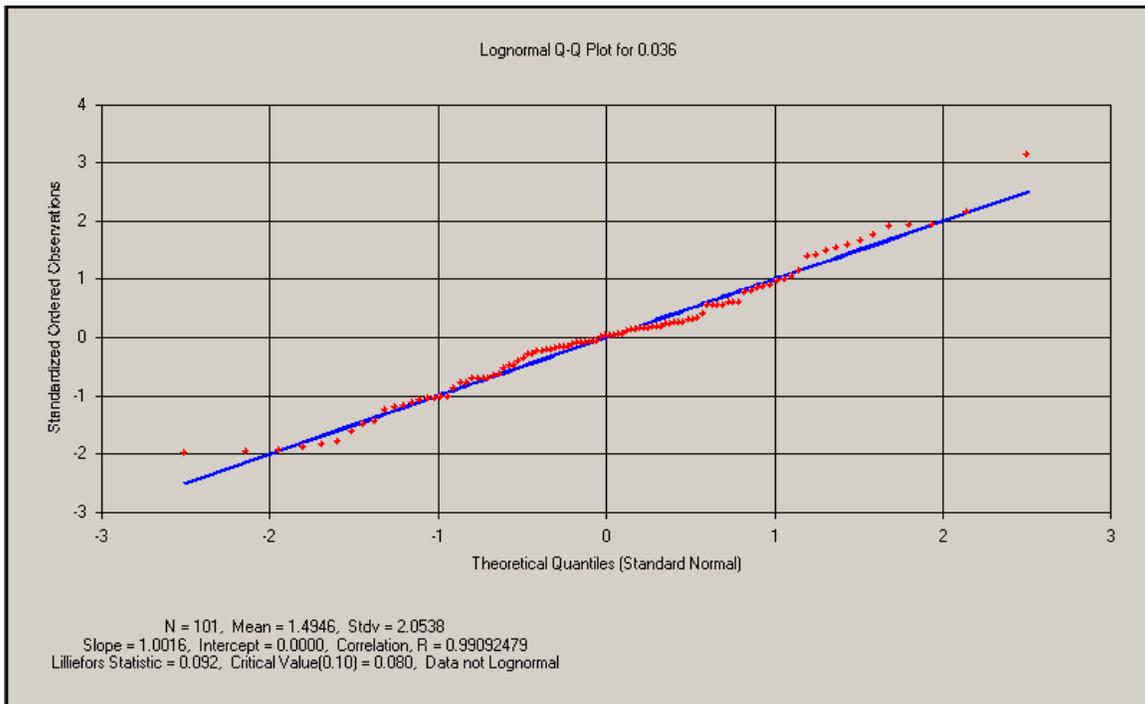
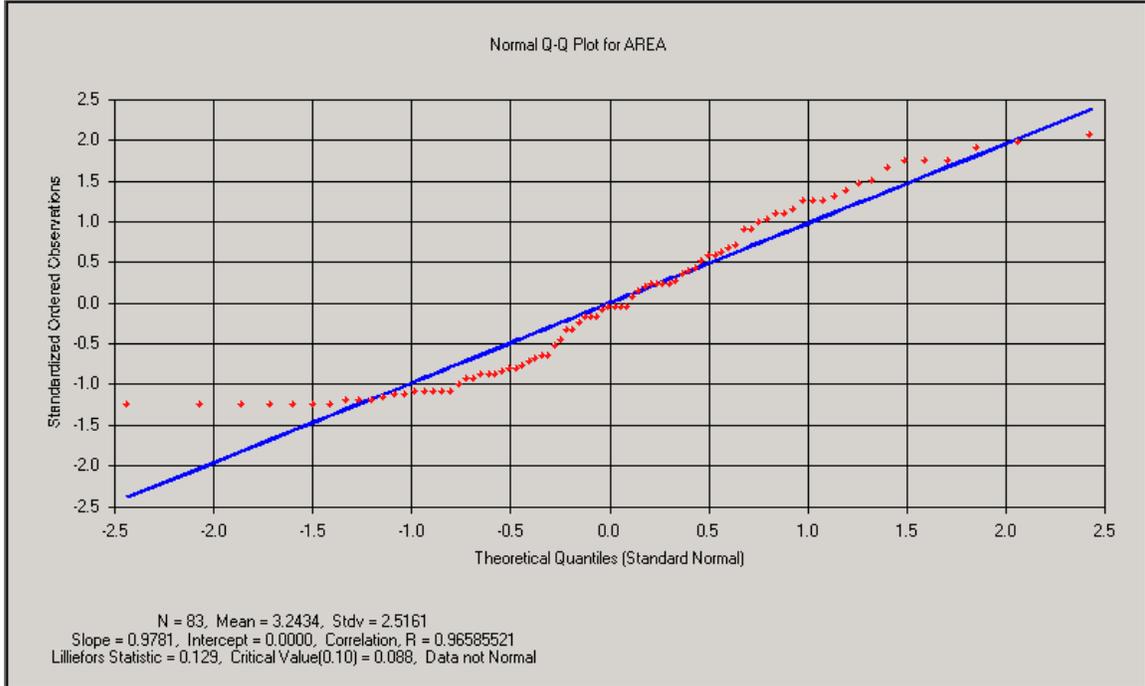


Figure 2-2
Q-Q Plots – Test for Lognormal or Approximately Lognormal
Distributions (alpha=0.10)

GM Massena Uncapped Area



Reynolds Metals

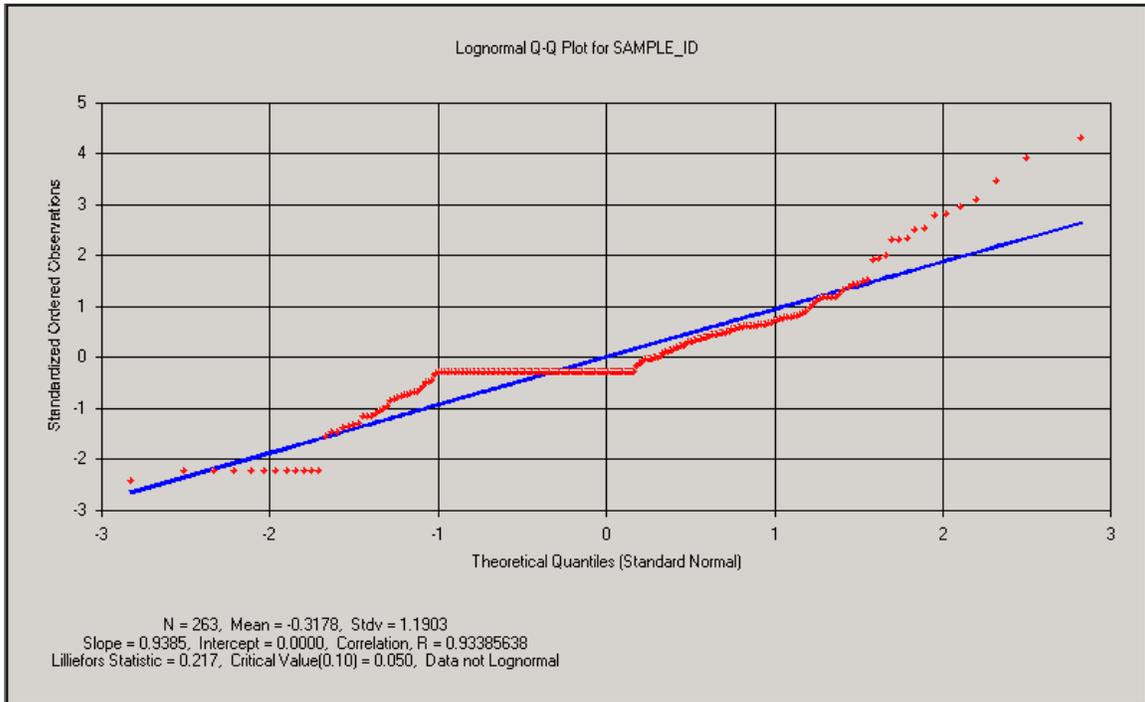
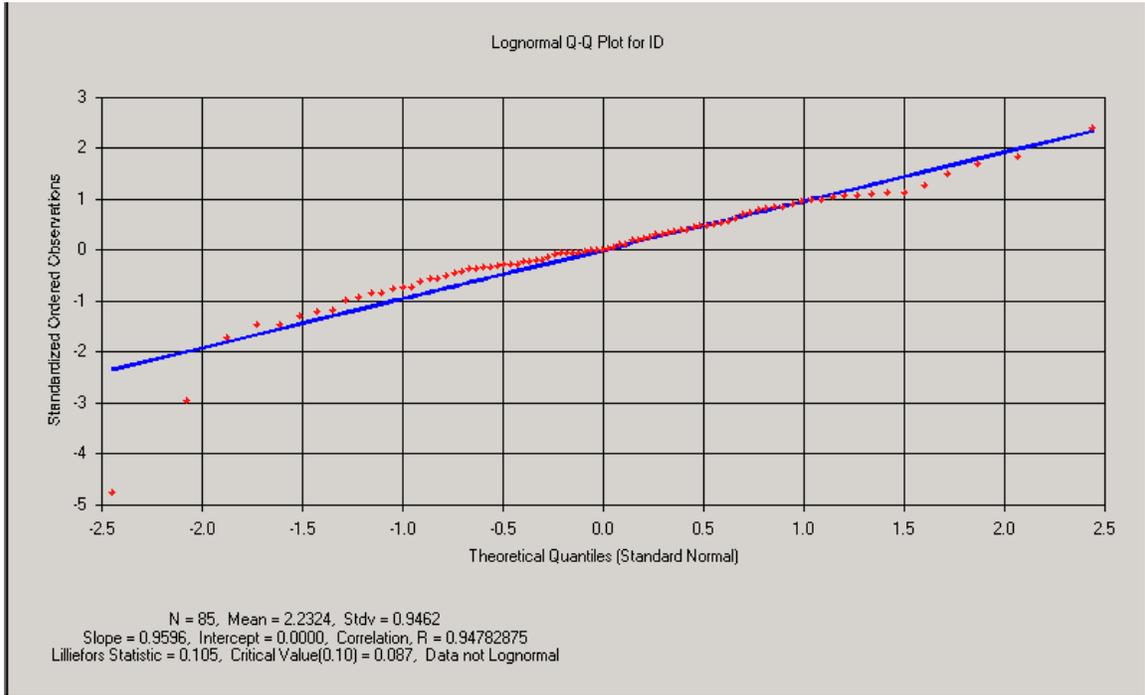


Figure 2-2
Q-Q Plots – Test for Lognormal or Approximately Lognormal
Distributions (alpha=0.10)

Marathon Battery



New Bedford Harbor 0-1'

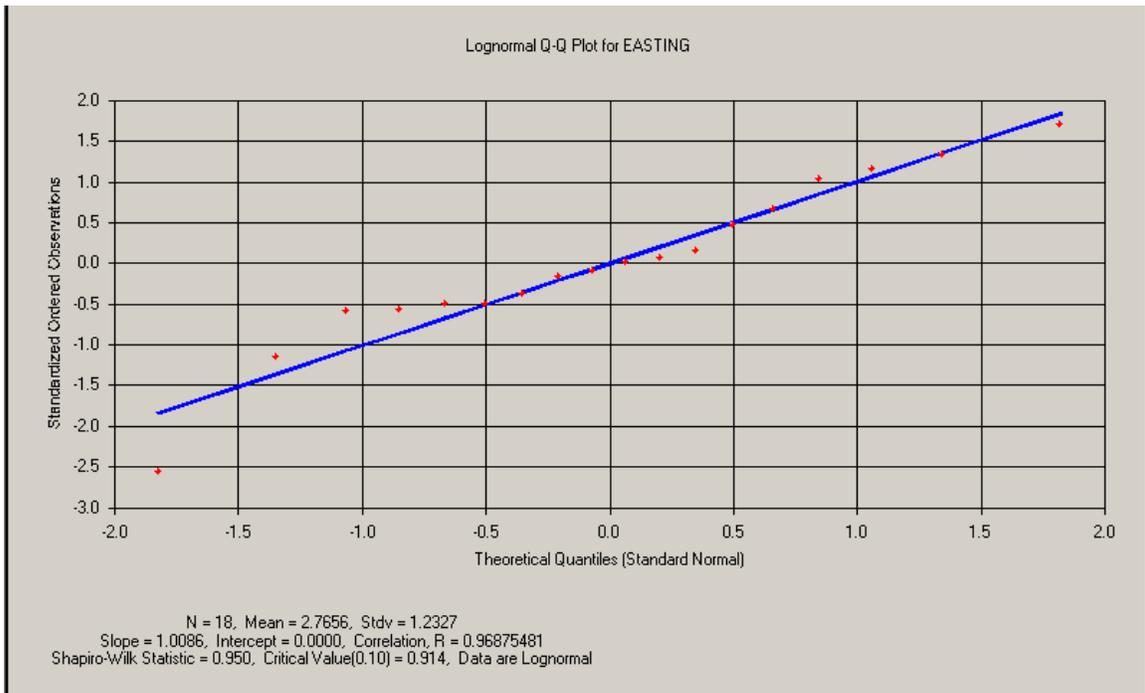
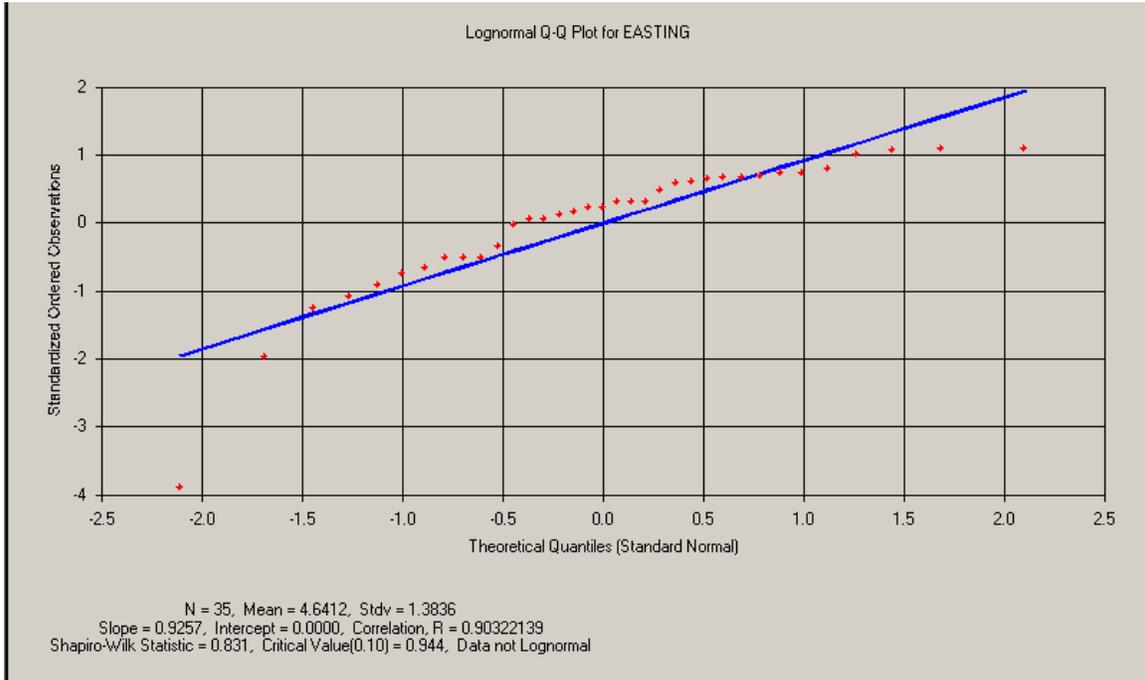


Figure 2-2
Q-Q Plots – Test for Lognormal or Approximately Lognormal
Distributions (alpha=0.10)

New Bedford Harbor 0-2 cm



Cumberland Bay

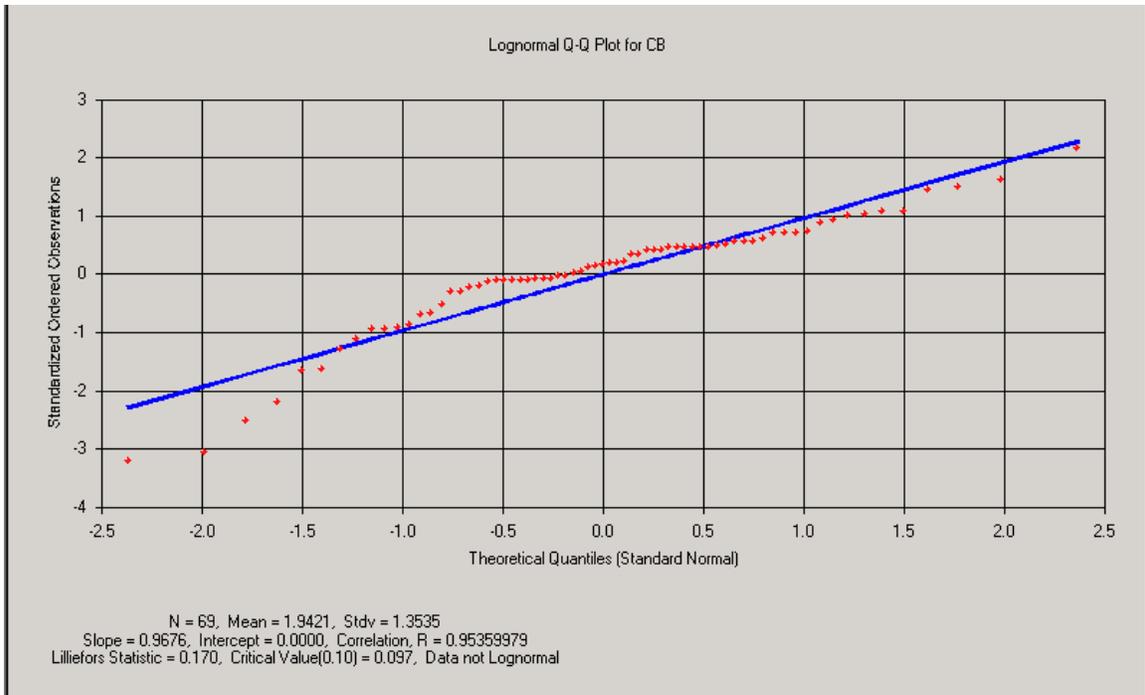
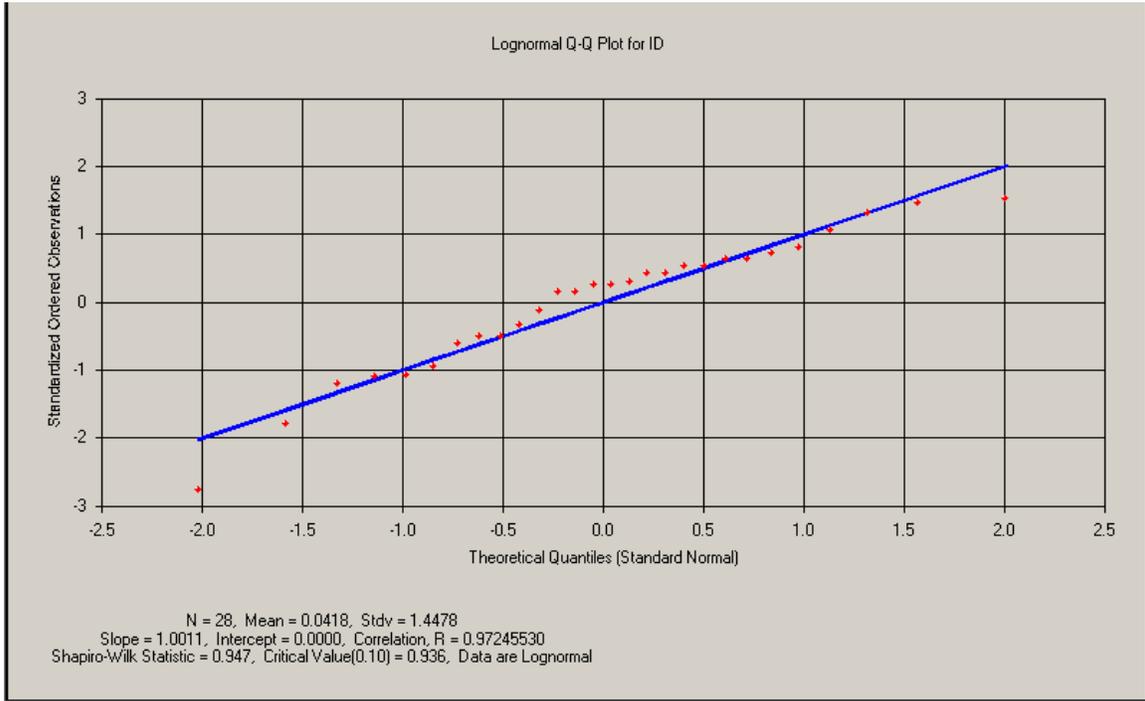


Figure 2-2
Q-Q Plots – Test for Lognormal or Approximately Lognormal
Distributions (alpha=0.10)

Fox River SMUs 56/57



Fox River Deposit N

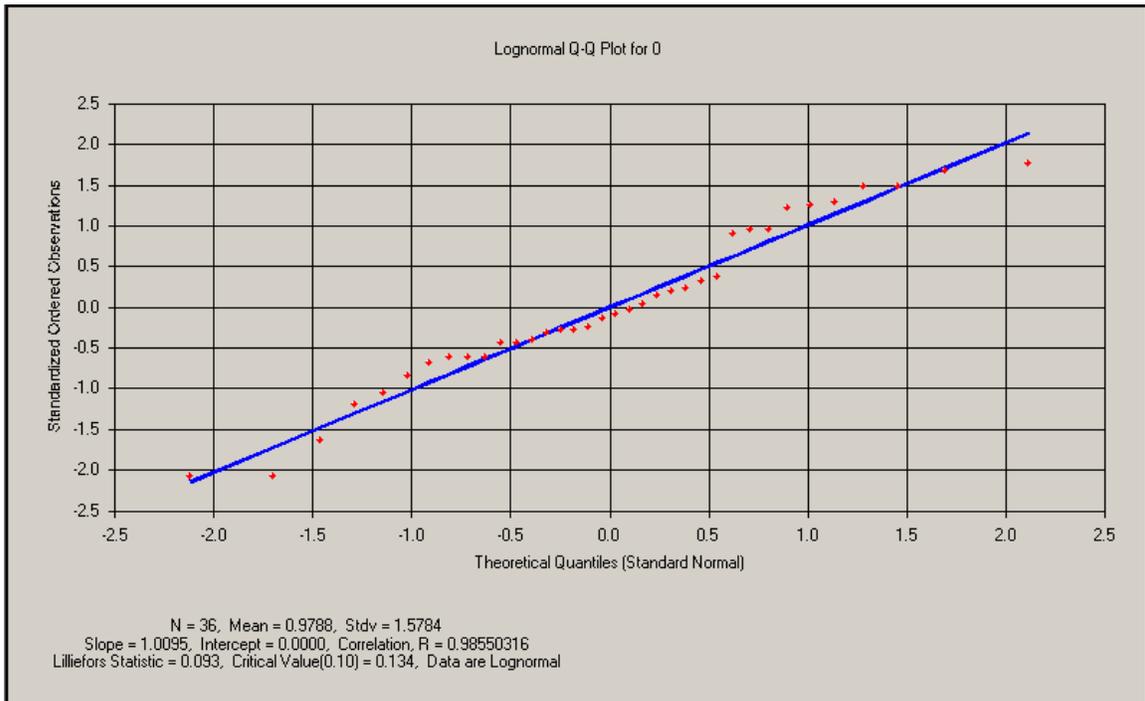


Figure 2-3
Mahalanobis Jackknife Distance for the Eight Case Studies

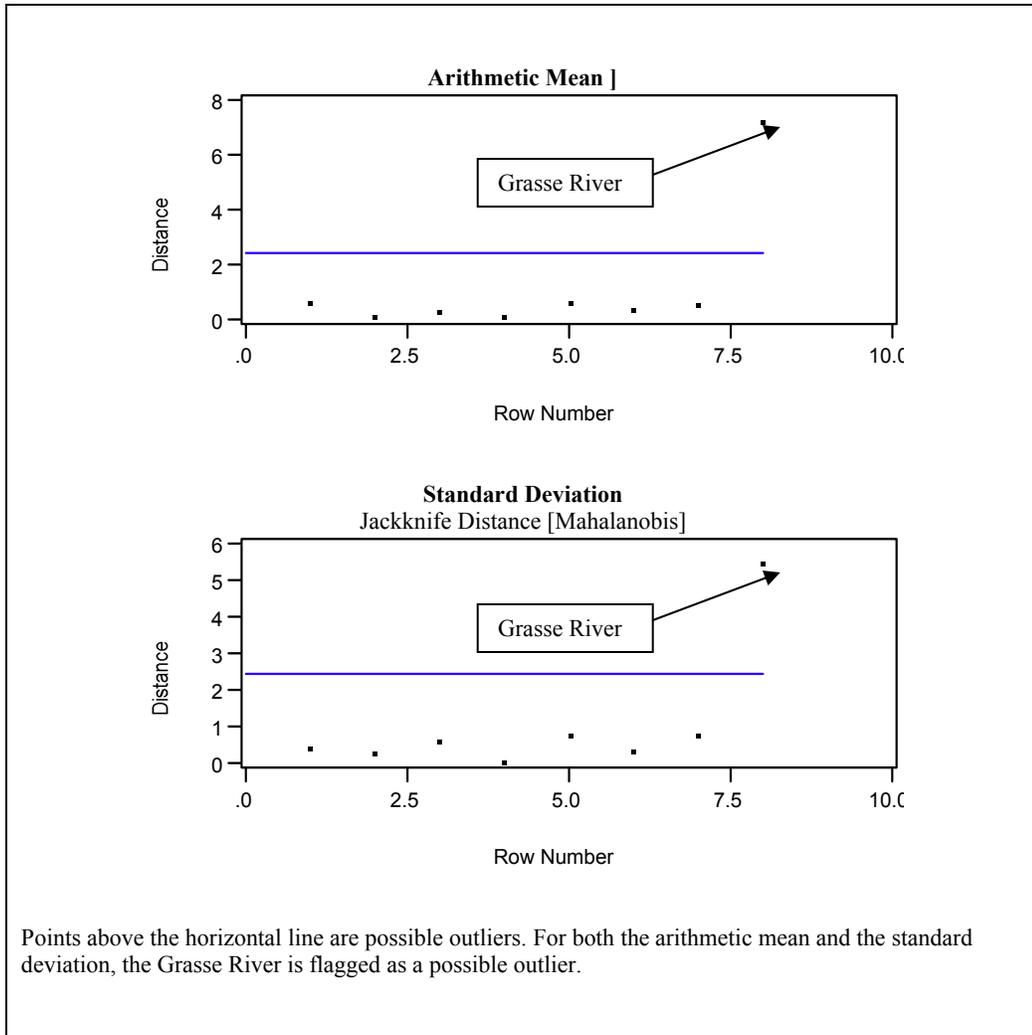


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

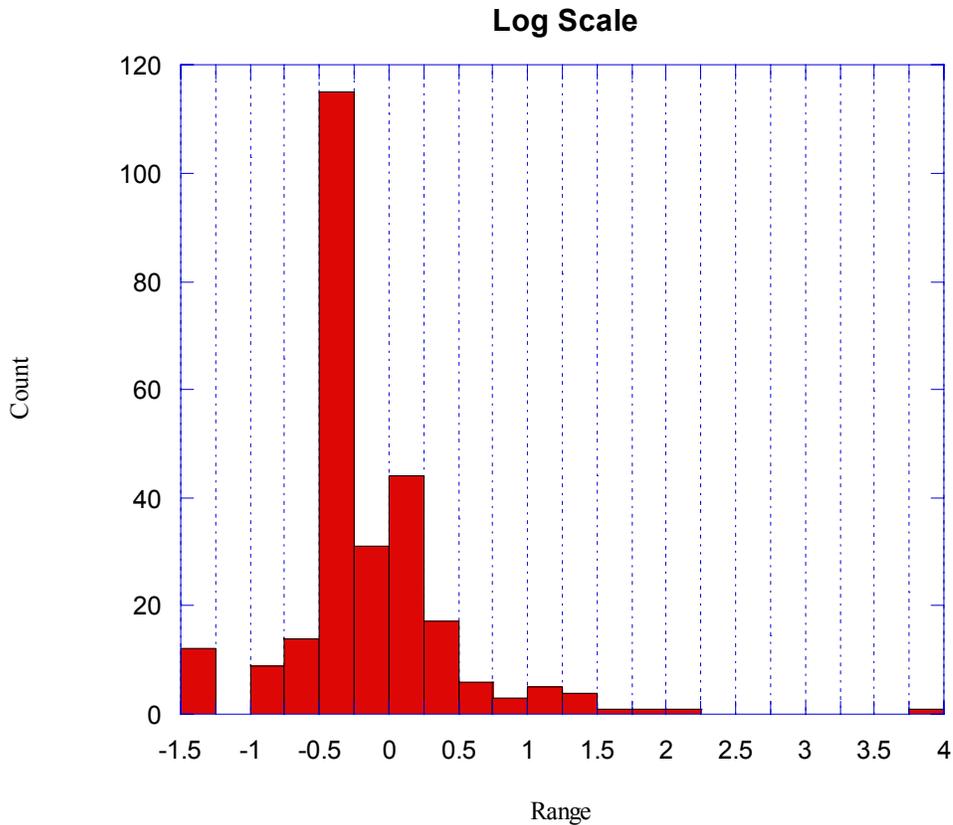
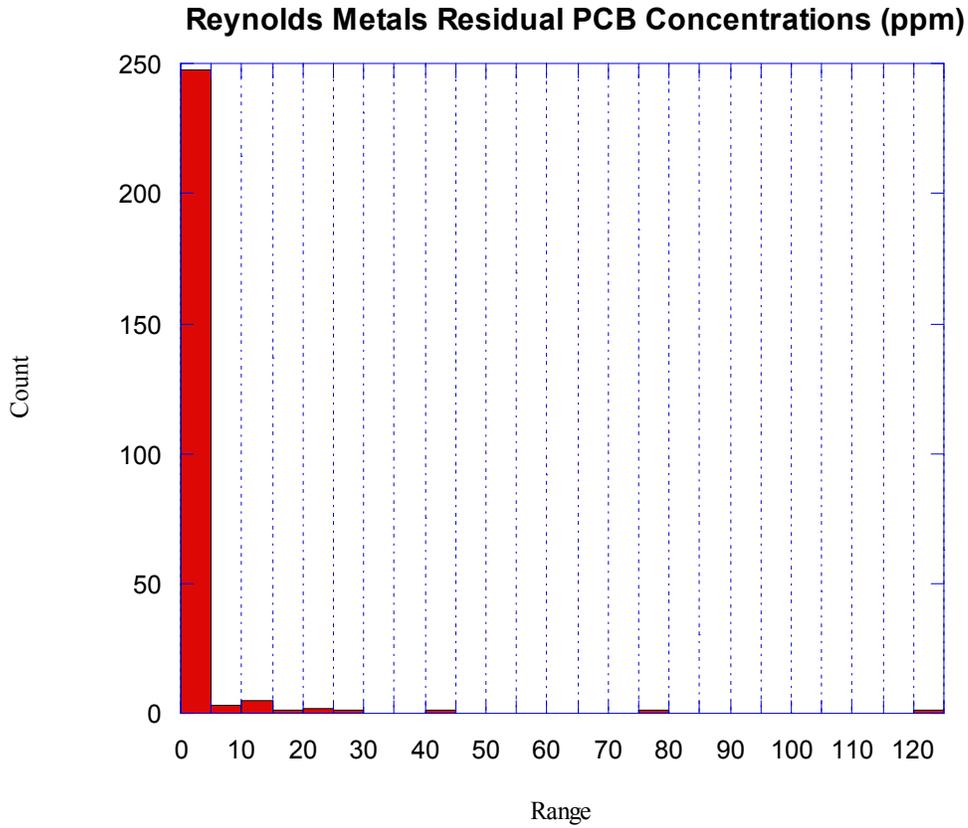


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

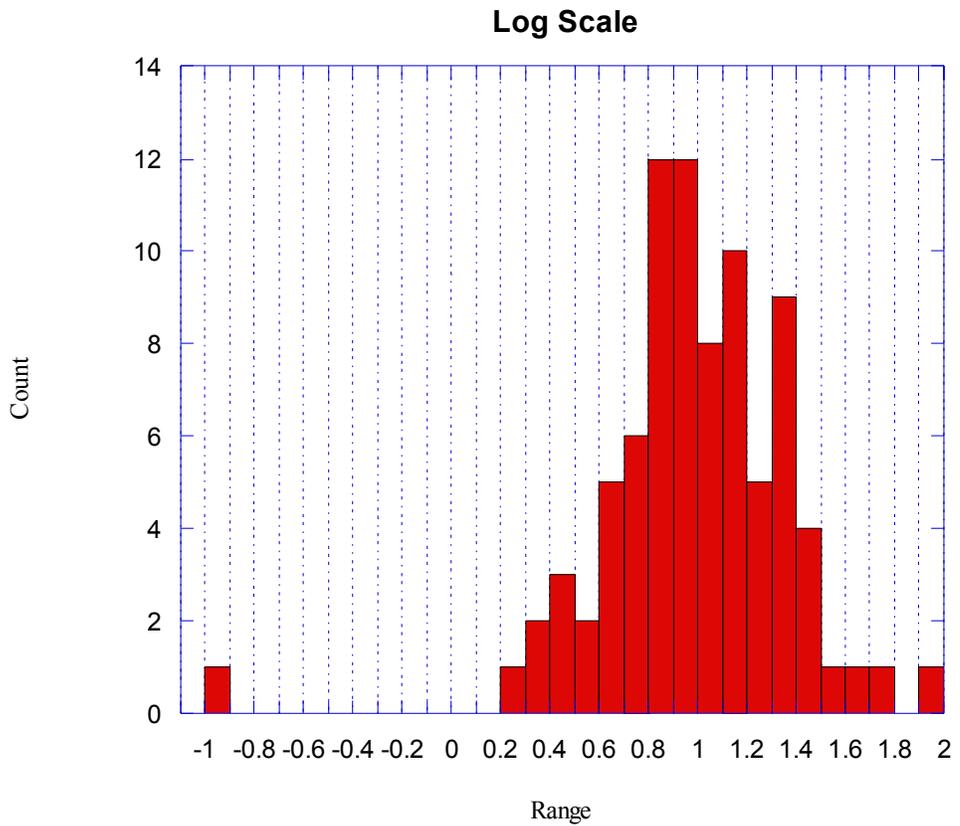
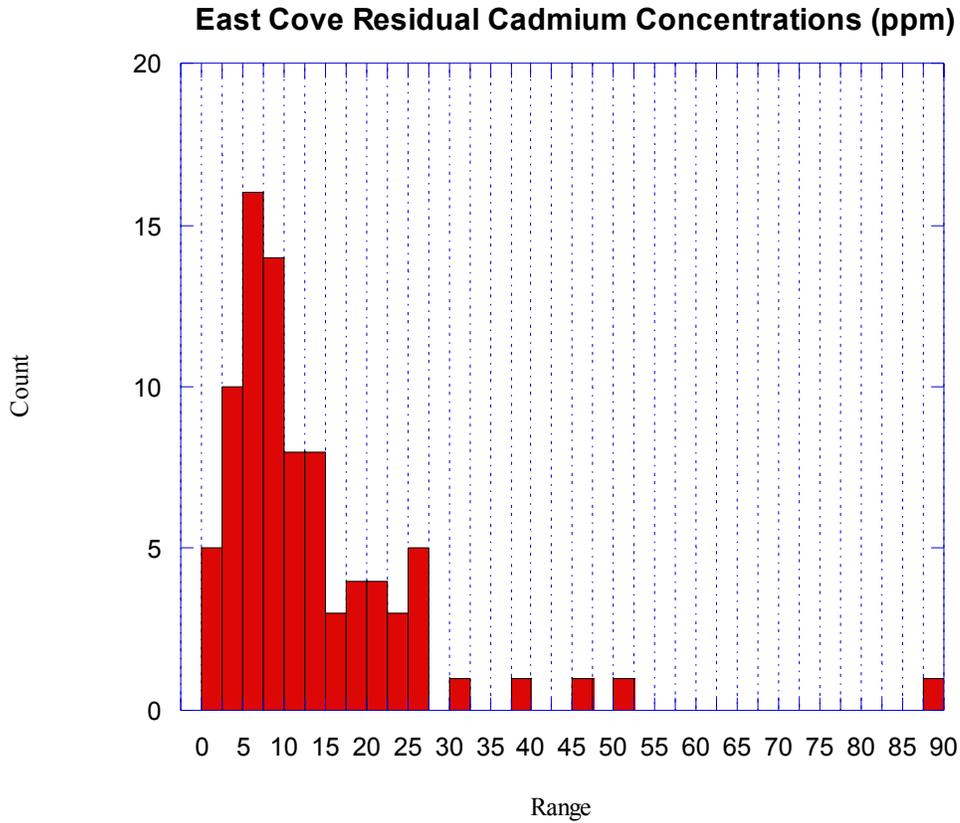


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets
New Bedford Harbor (Cores) PCB Concentrations (ppm)

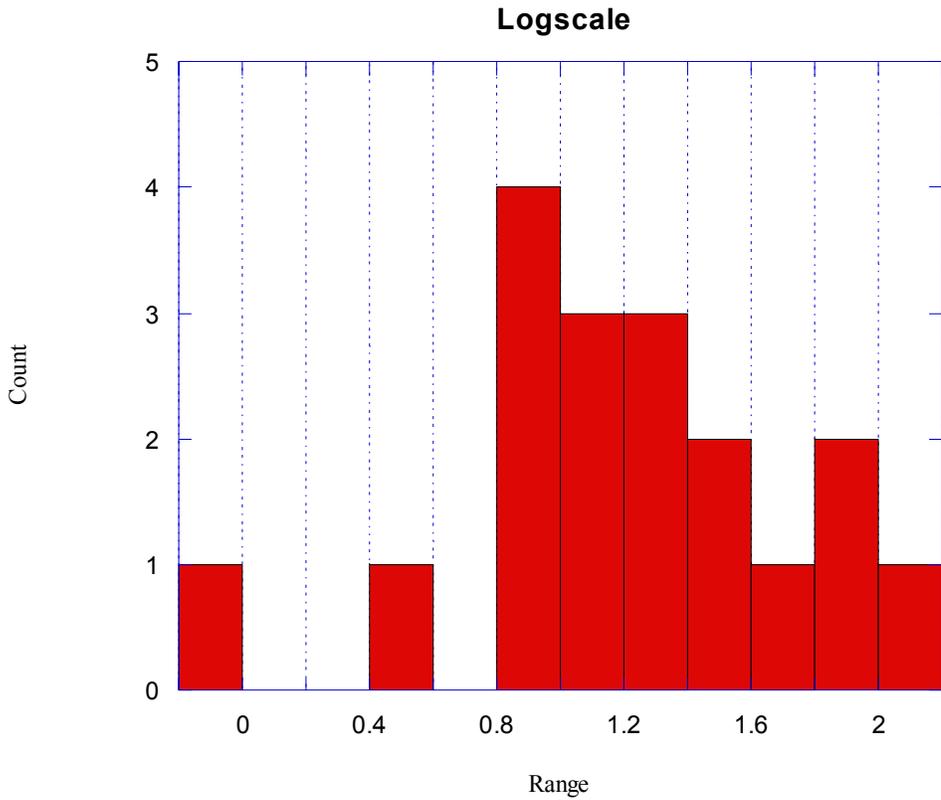
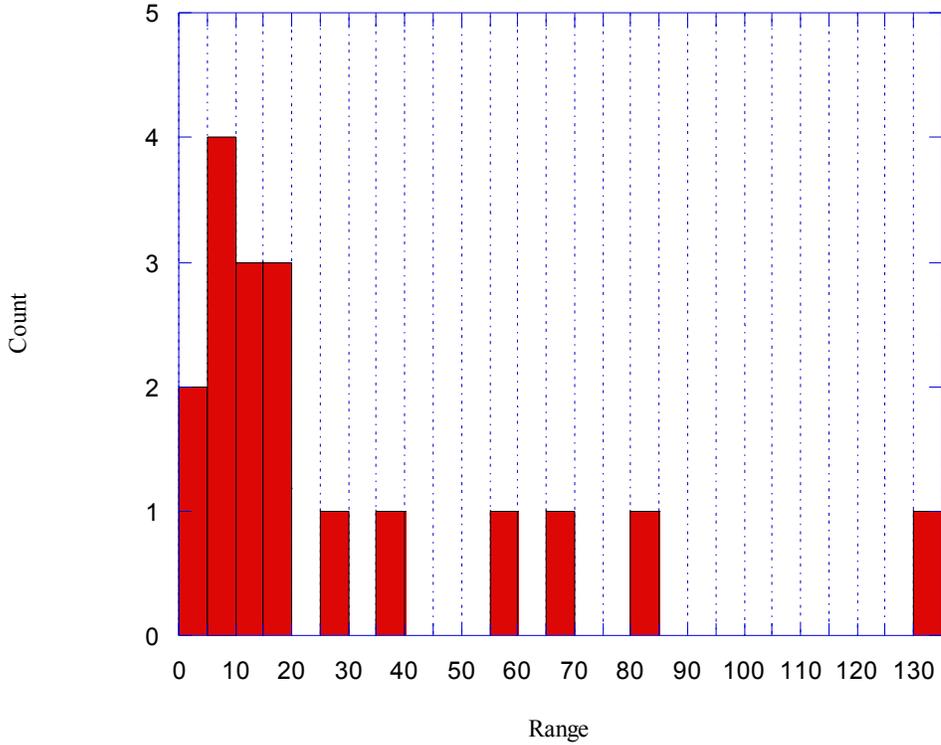


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

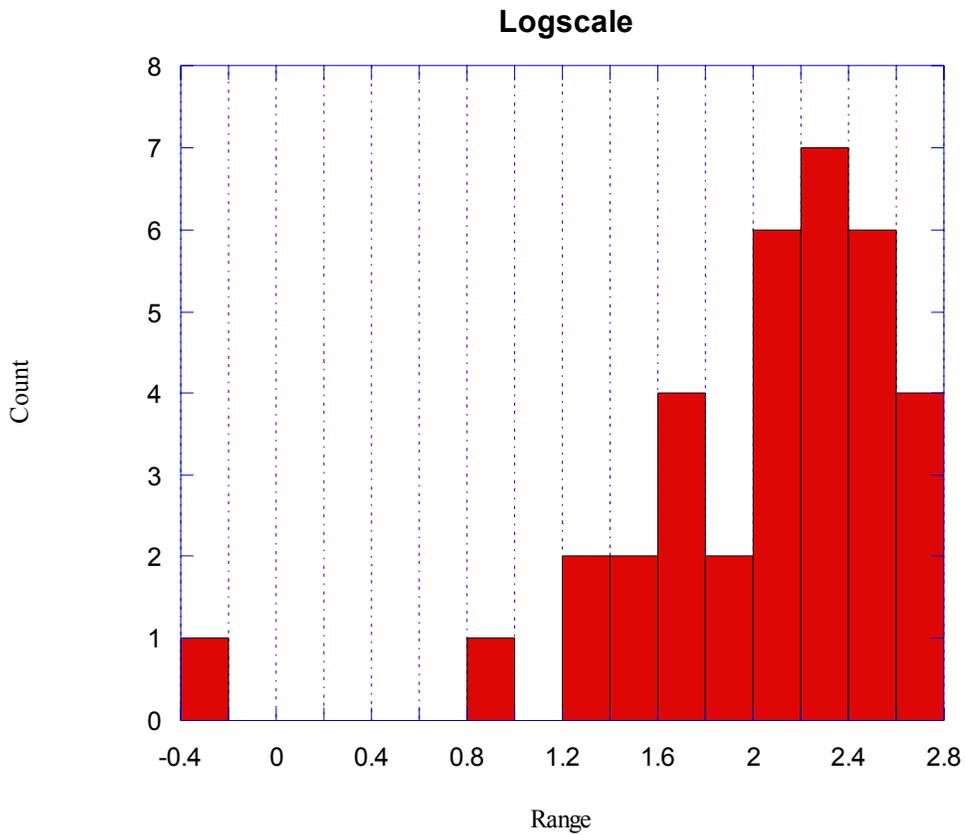
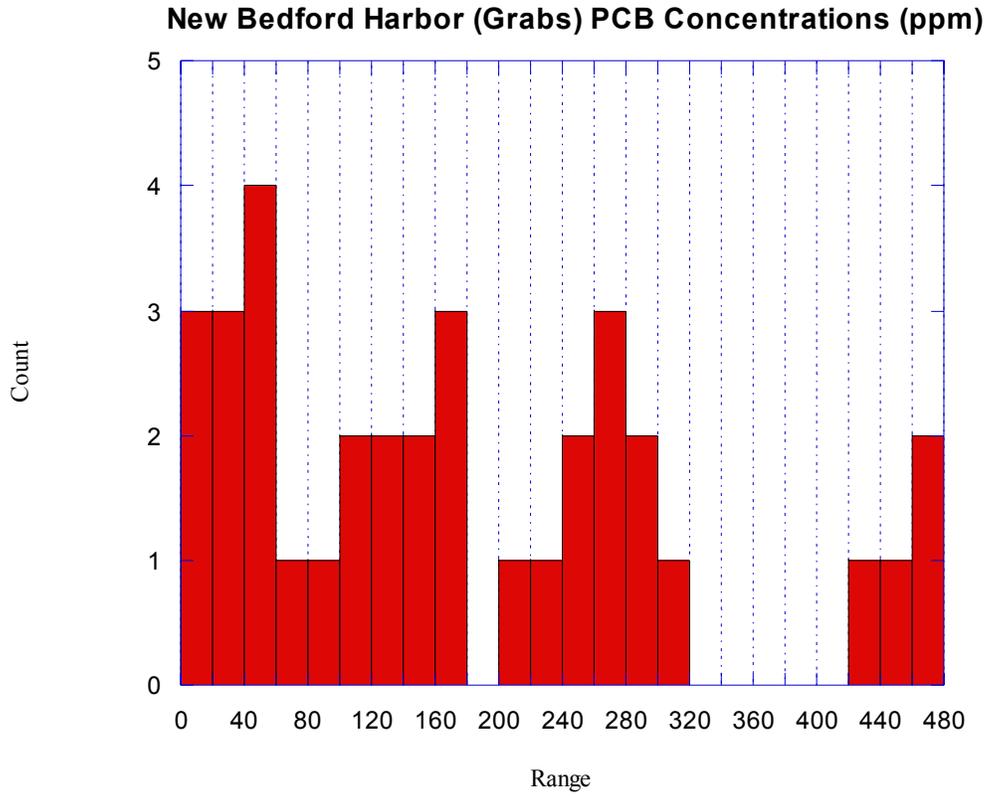


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

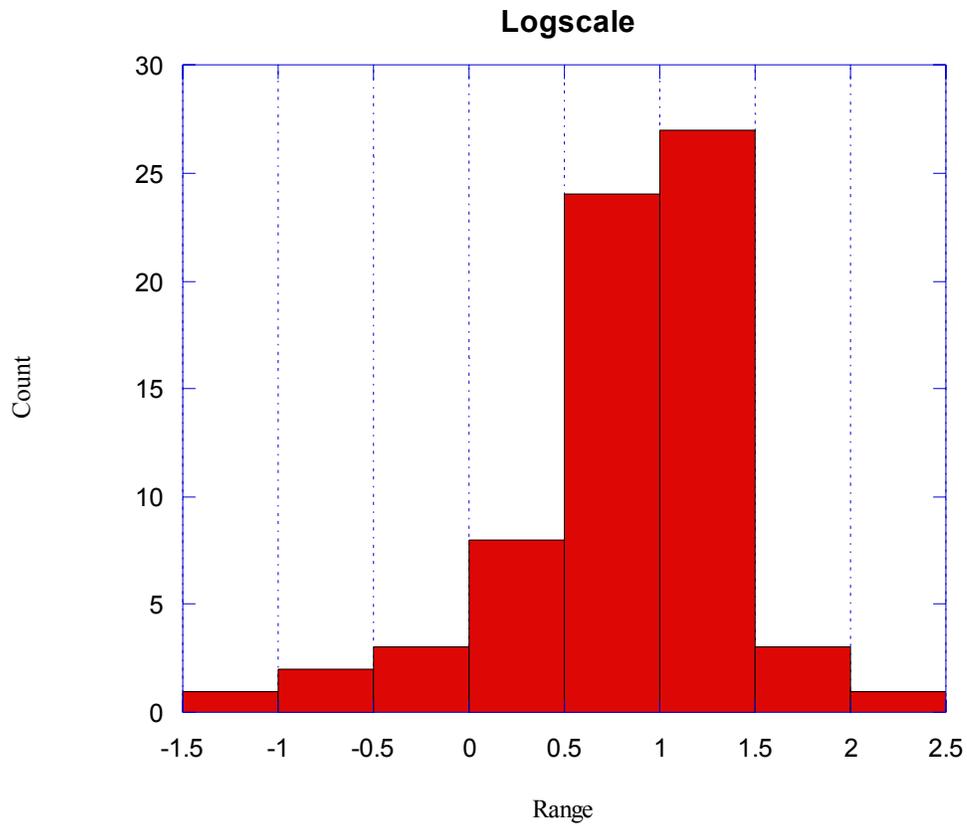
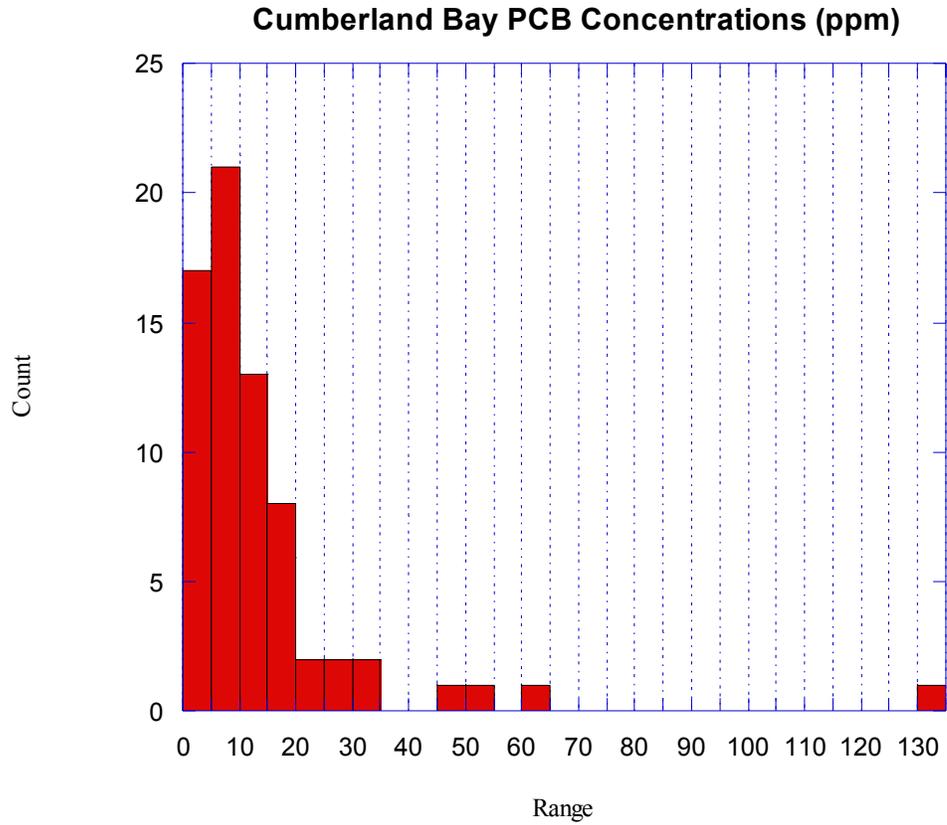


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets
Fox SMU PCB Concentrations (ppm)

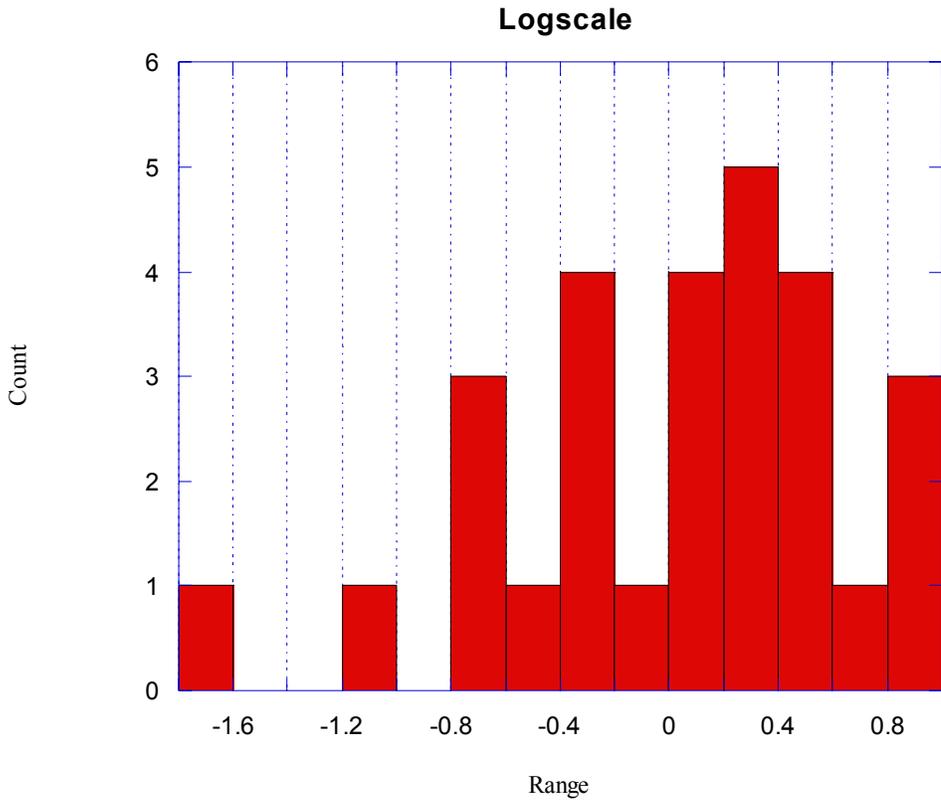
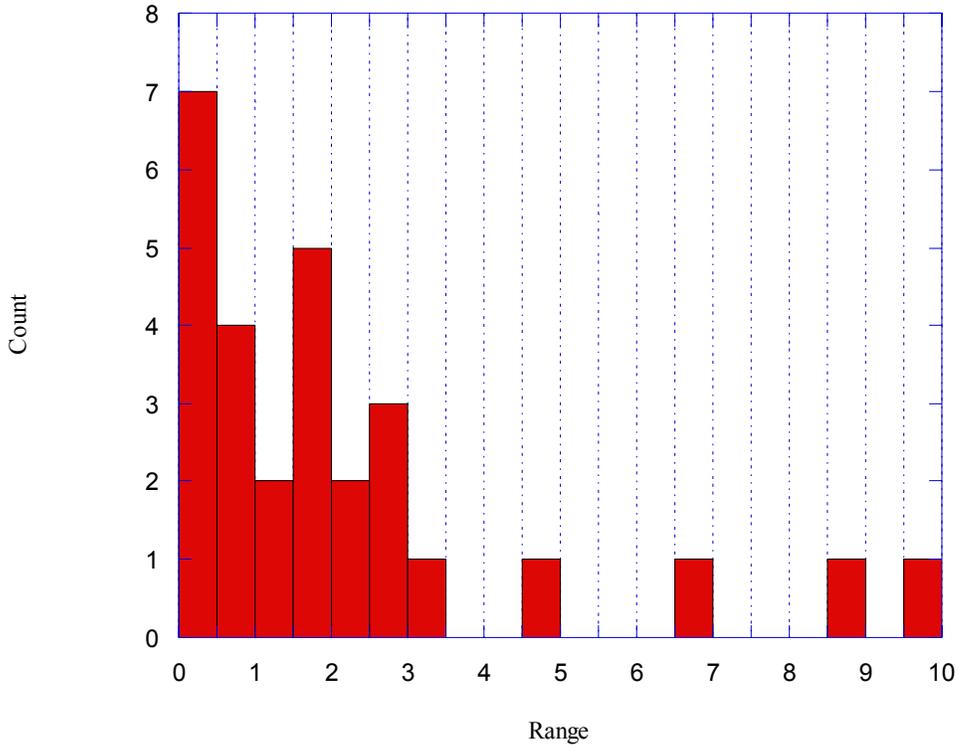


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

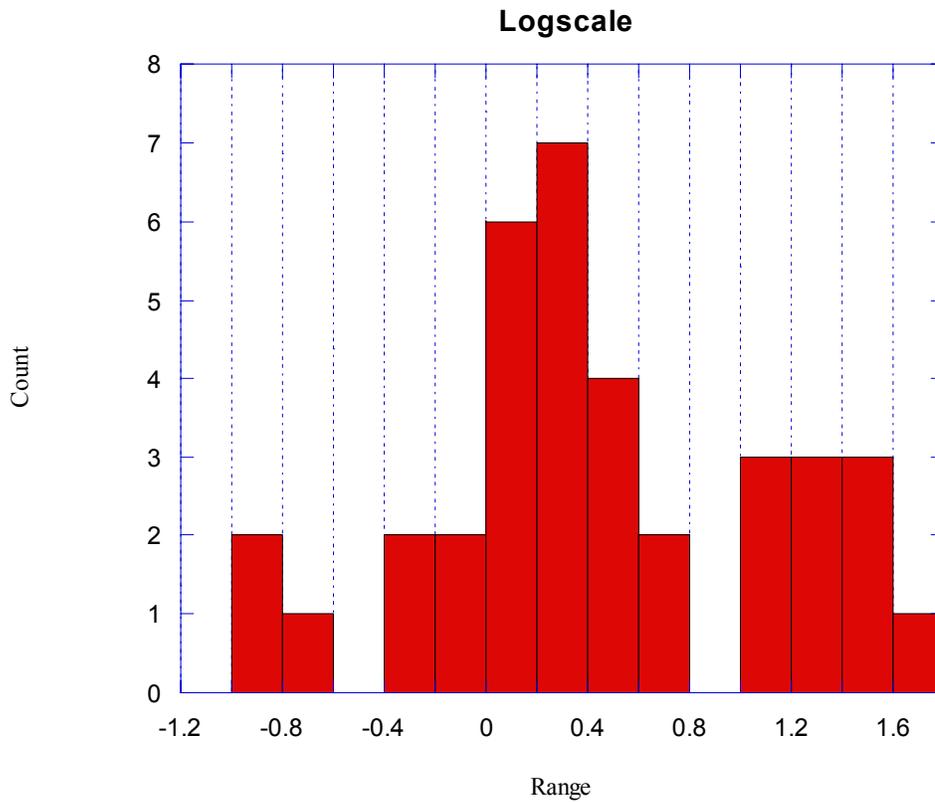
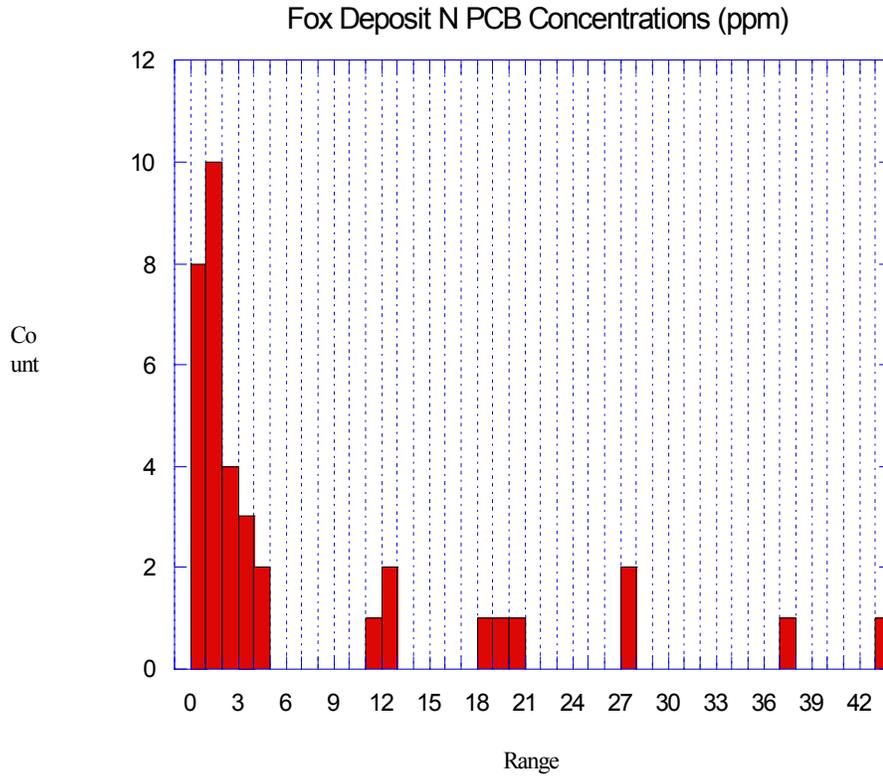


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

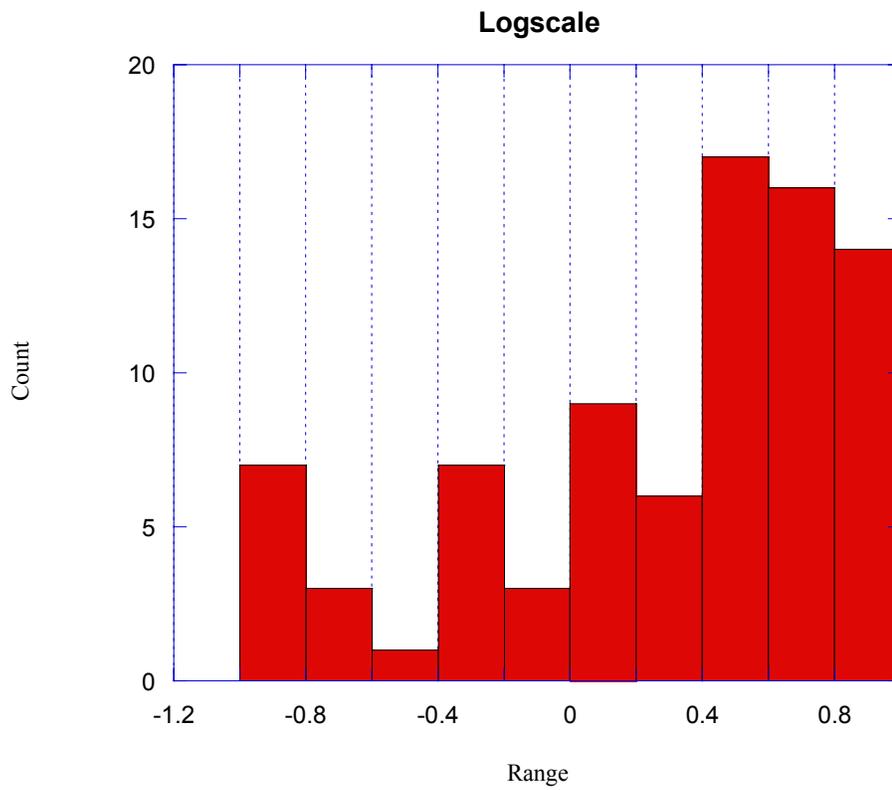
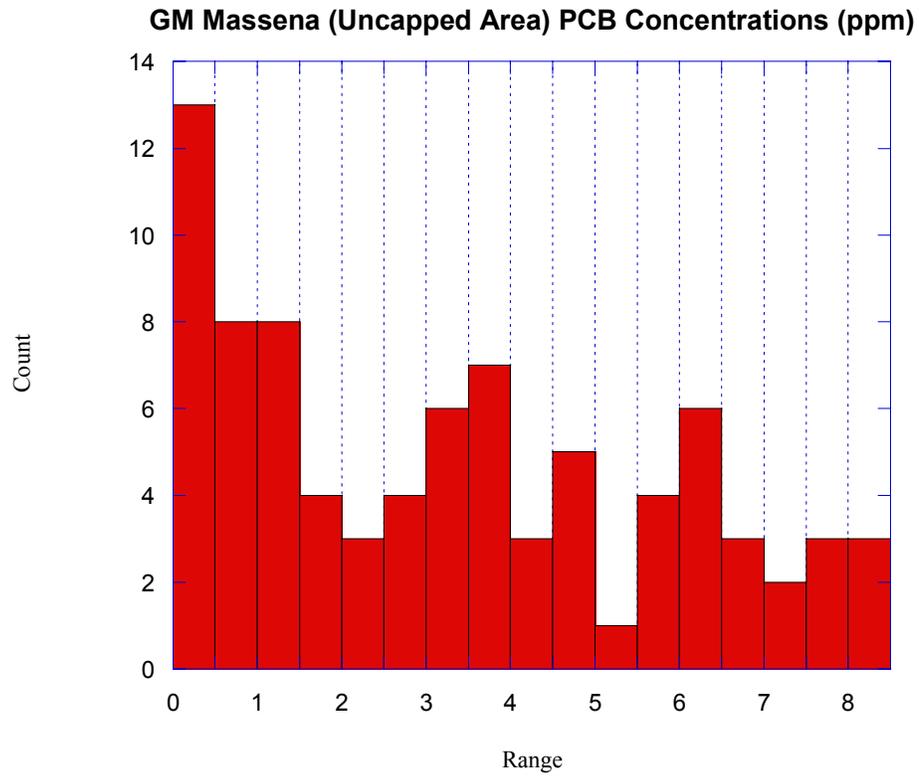


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

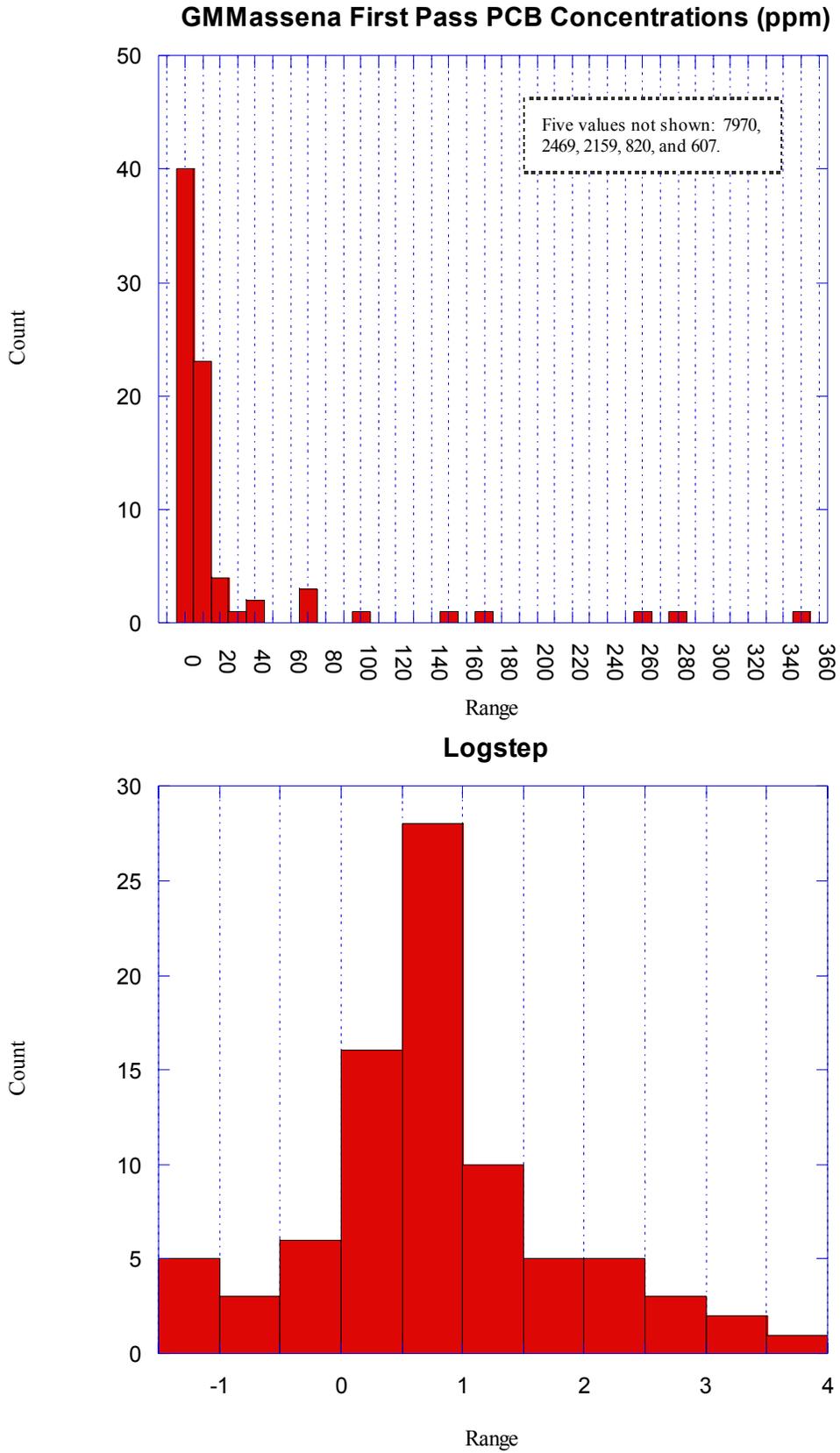


Figure 2-4
Histograms for Lognormal or Approximately Lognormal Data Sets

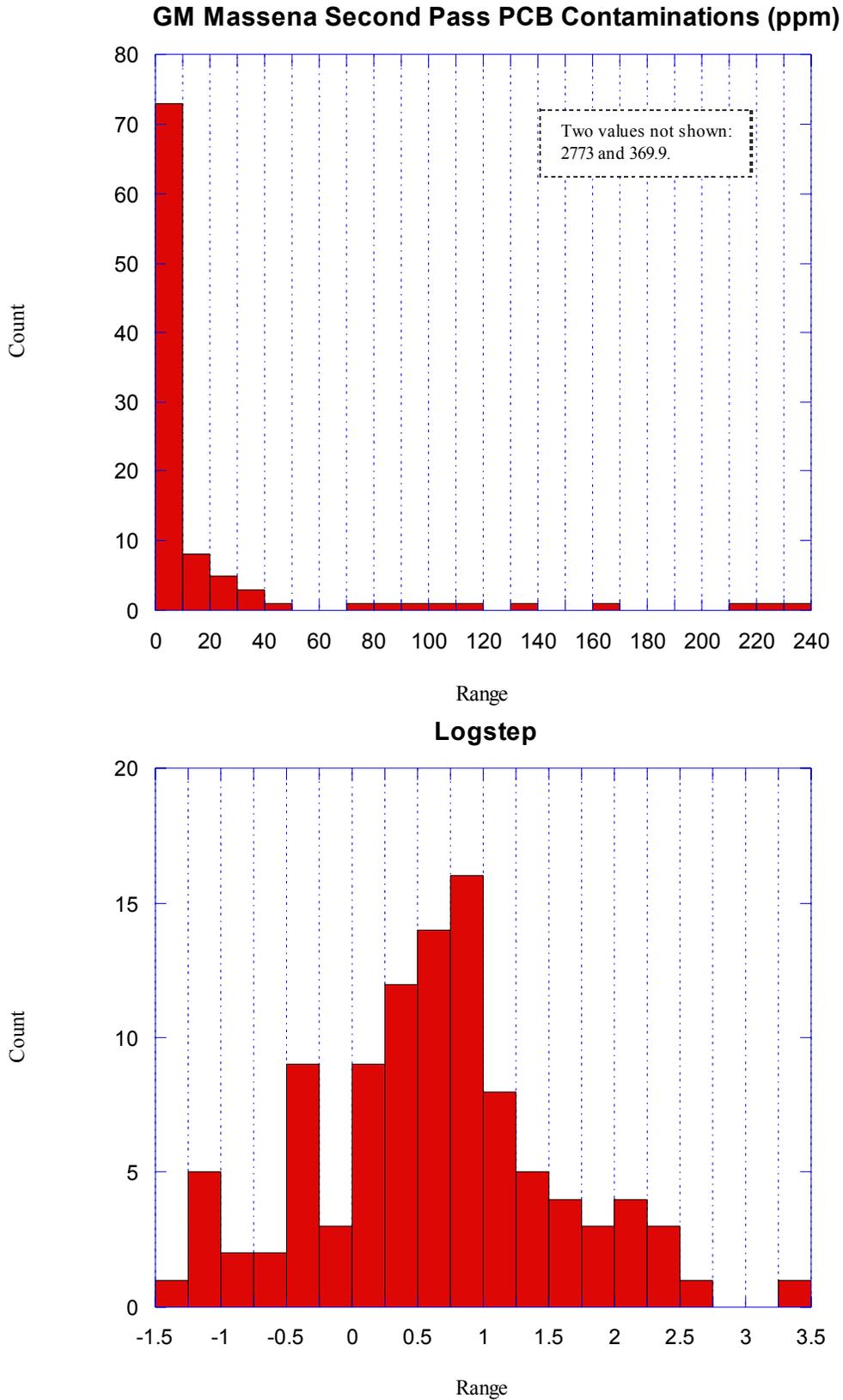


Figure 2-5
Mean vs. Standard Deviation for the Case Study Sites

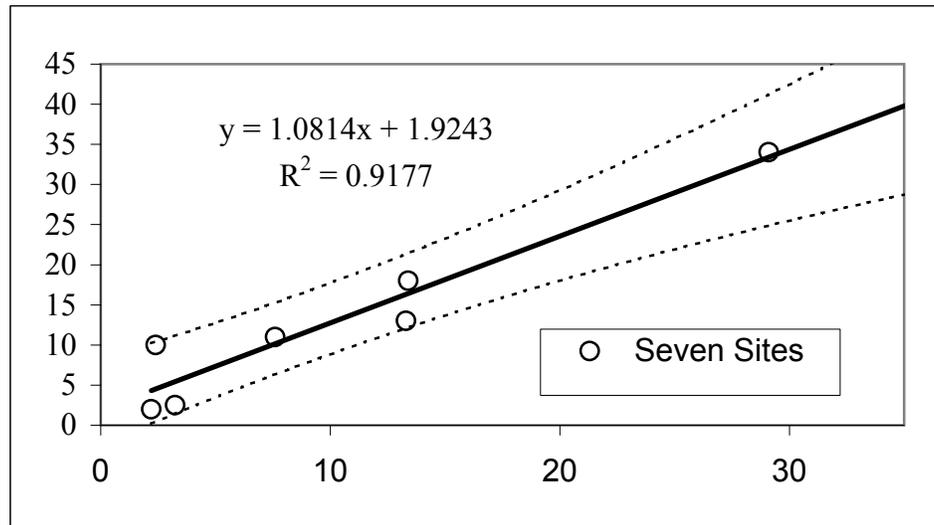
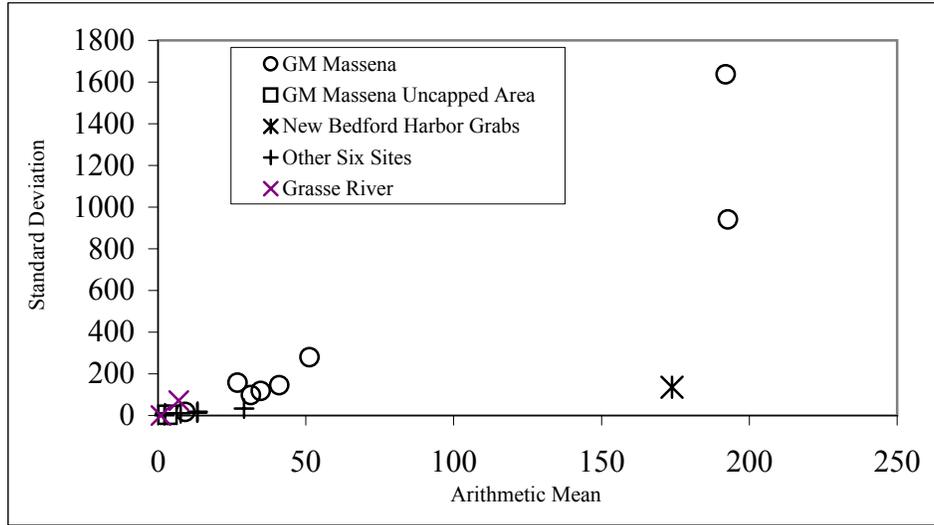


Figure 2-6
Mean vs. Standard Deviation of the Logs for the Case Study Sites

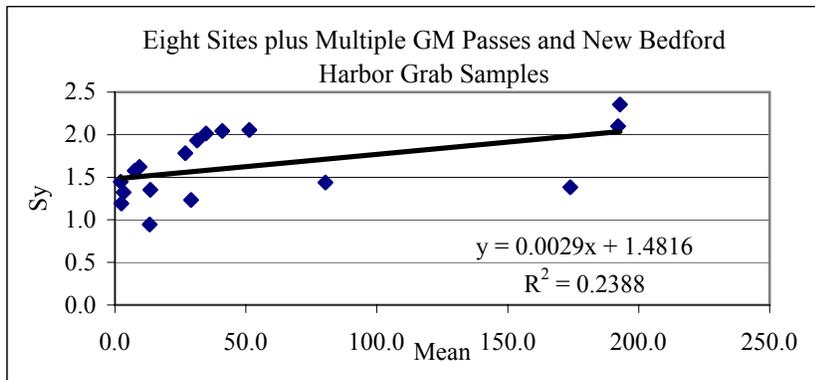
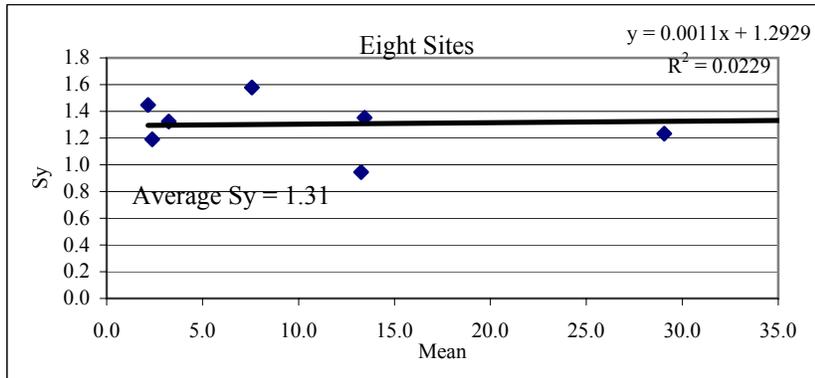


Figure 2-7
Estimated Tri+ PCB Concentrations in the Residual Layer
(Assuming 1% of the Inventory Remains after the Initial Dredging Attempt)

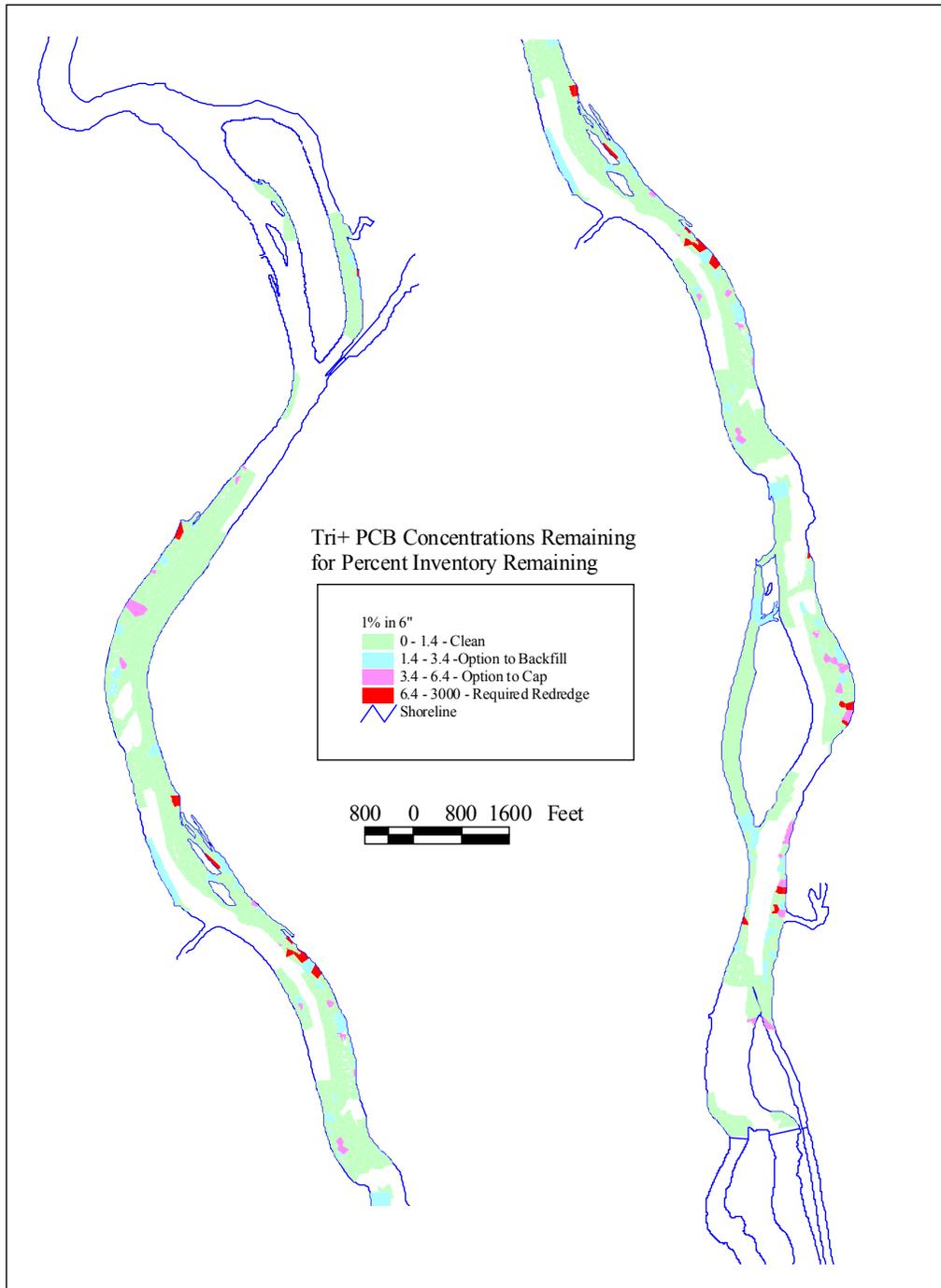


Figure 2-7
Estimated Tri+ PCB Concentrations in the Residual Layer
(Assuming 5% of the Inventory Remains after the Initial Dredging Attempt)

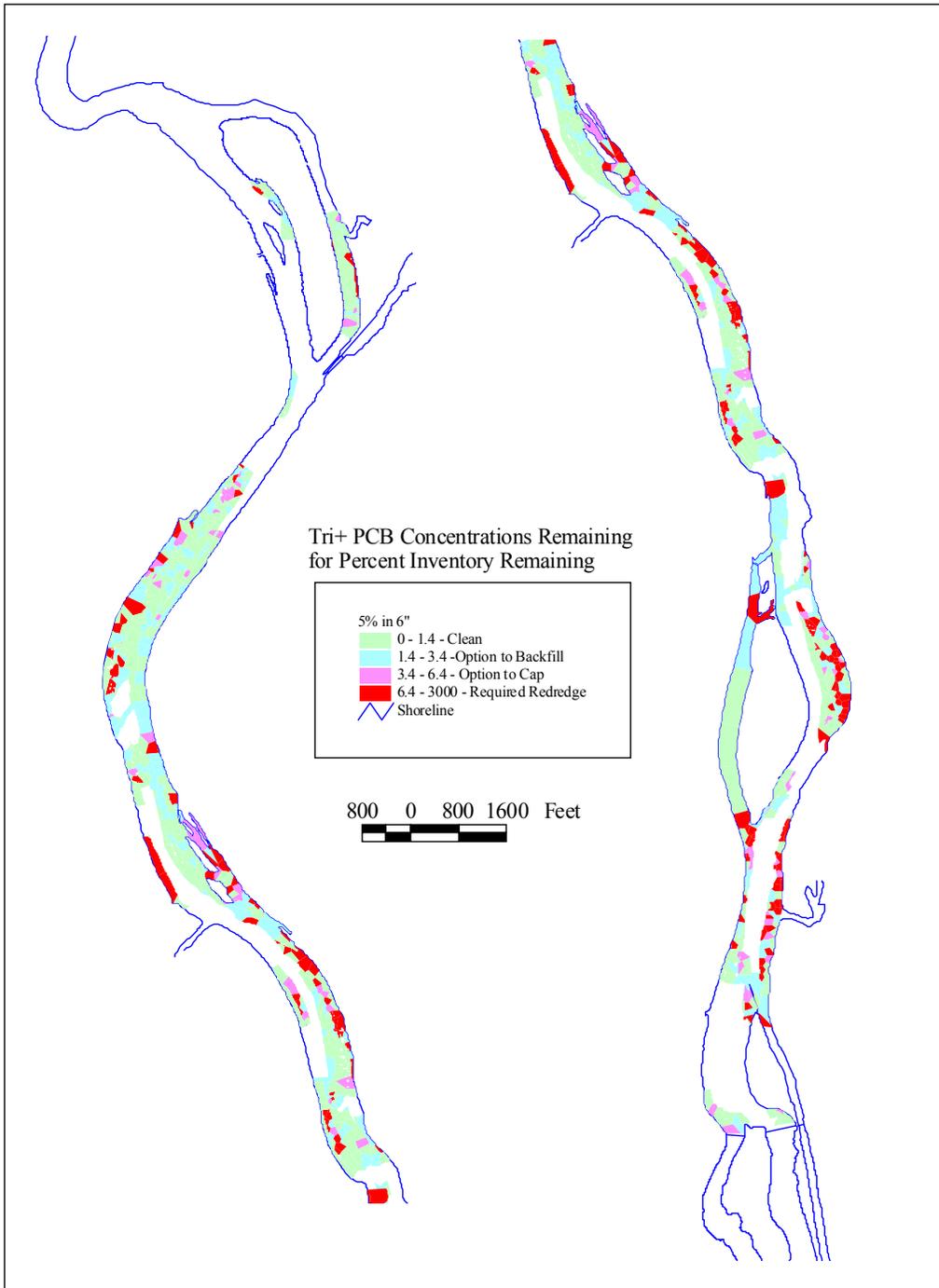


Figure 2-7
Estimated Tri+ PCB Concentrations in the Residual Layer
(Assuming 10% of the Inventory Remains after the Initial Dredging Attempt)

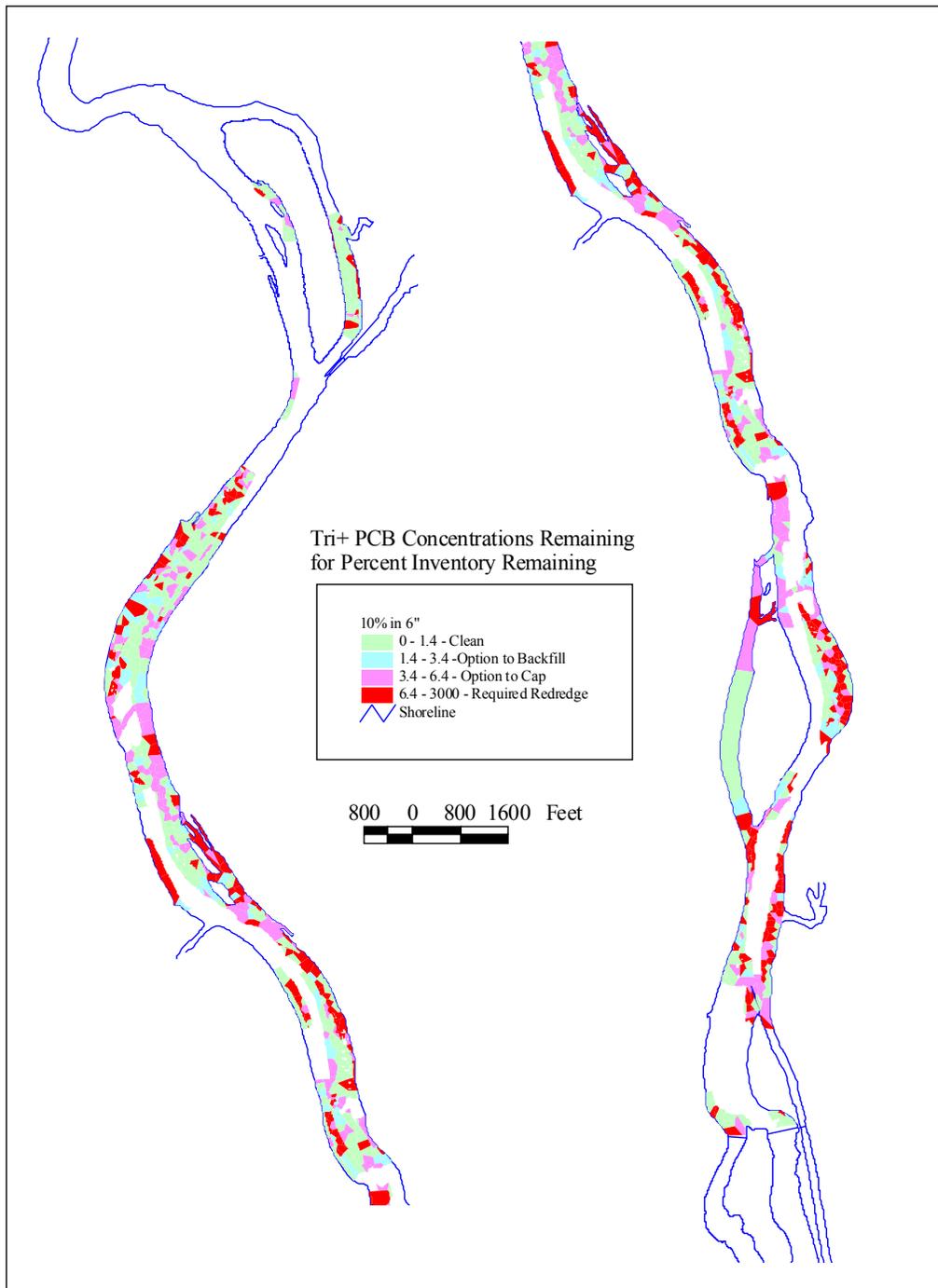
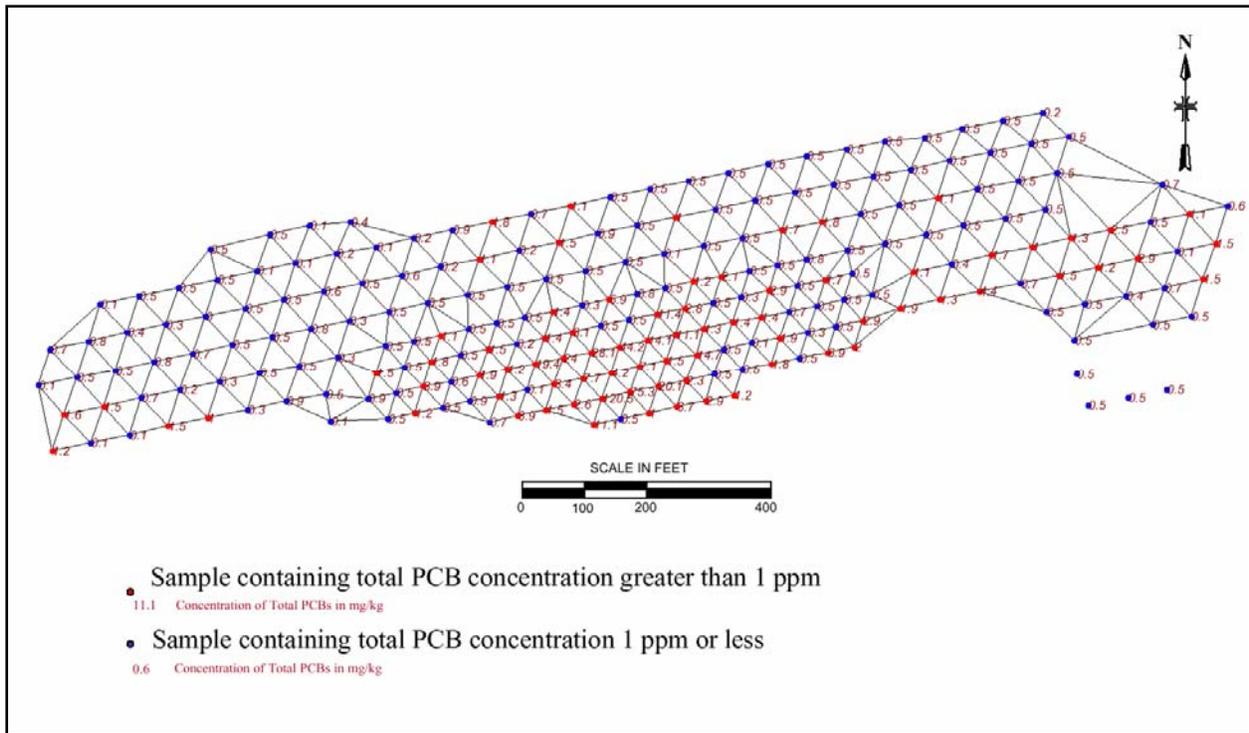
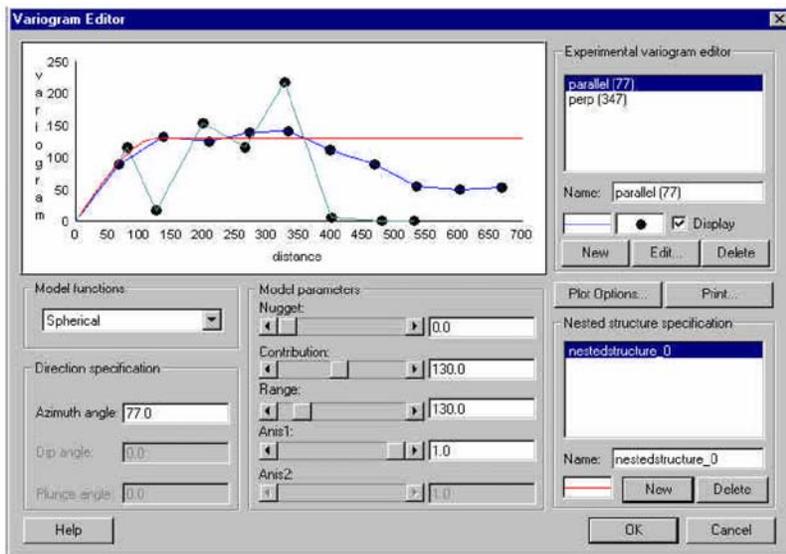


Figure 2-8
Reynolds Post-Dredging PCB Data Semi-Variogram Analysis 70' x 70' and 50' x 50'
Triangular Grid Spacing

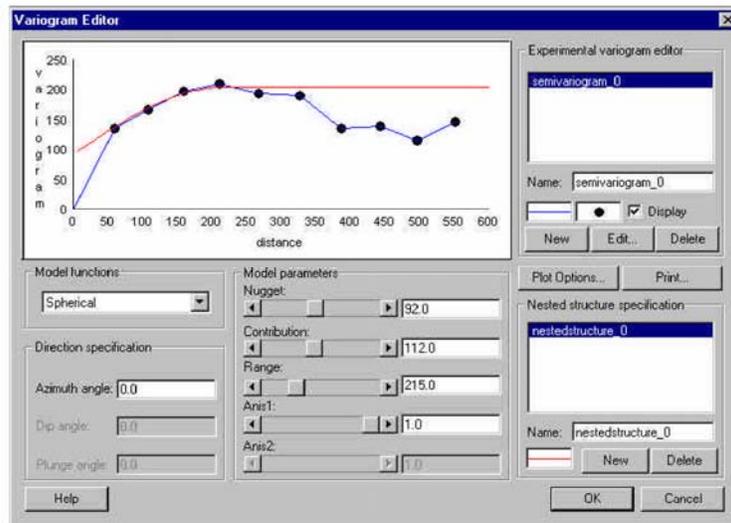
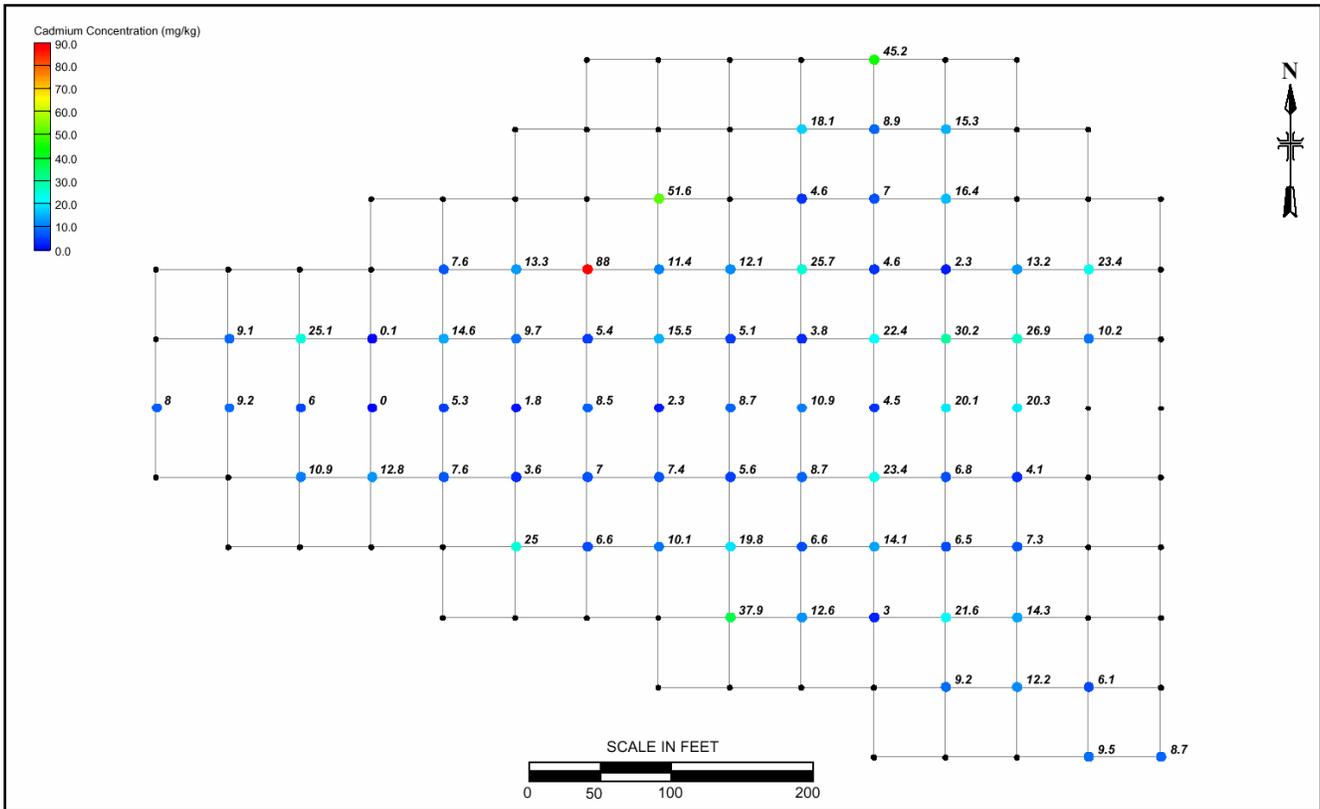


Final Dredging Program Design Report for the River Remediation Project at the Reynolds Metals Company, St. Lawrence Reduction Plant, Massena, New York, Revision 3.
 Prepared for Reynolds Metals Company. May 2000.

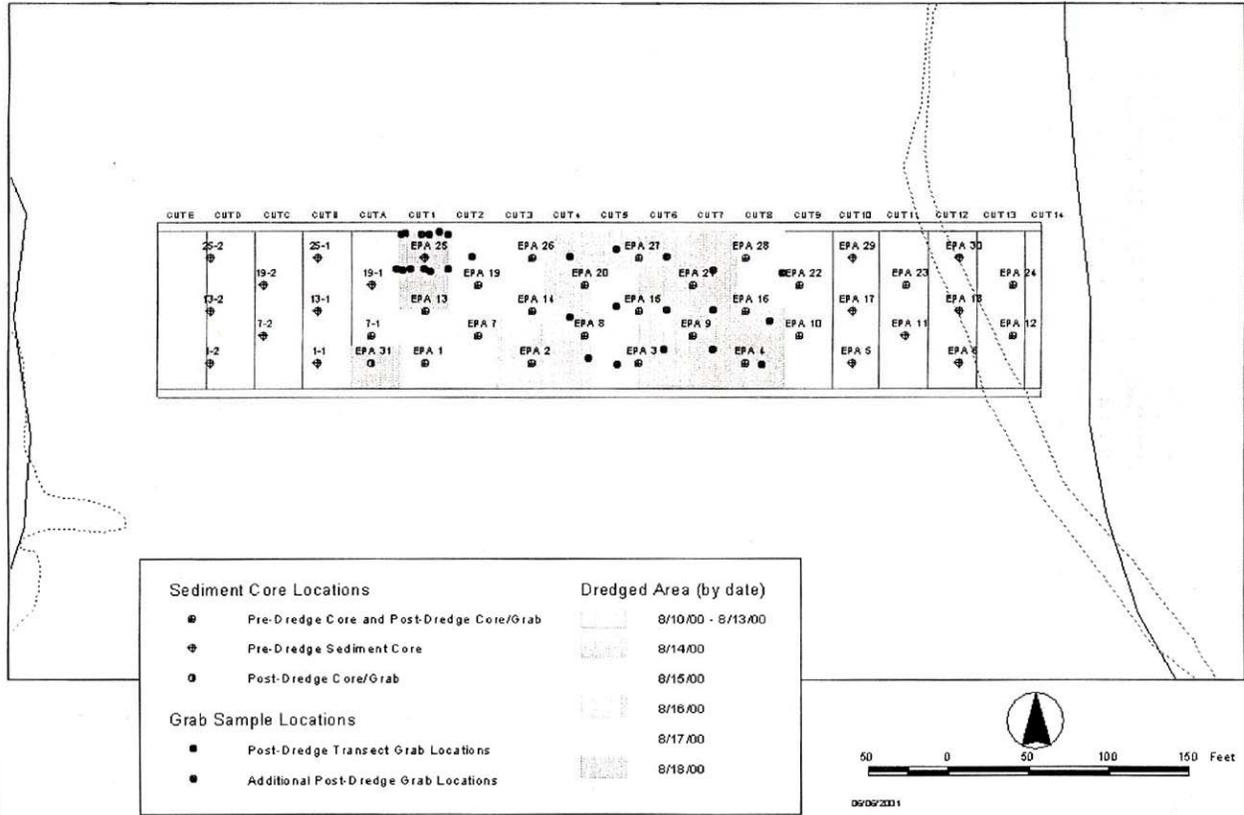
From Bechtel Environmental, Inc./Metcalf & Eddy, Inc. 2000.



**Figure 2-9
Marathon Battery Post-Dredging Cadmium Data Semi-Variogram Analysis 50' x 50' Sampling Grid**



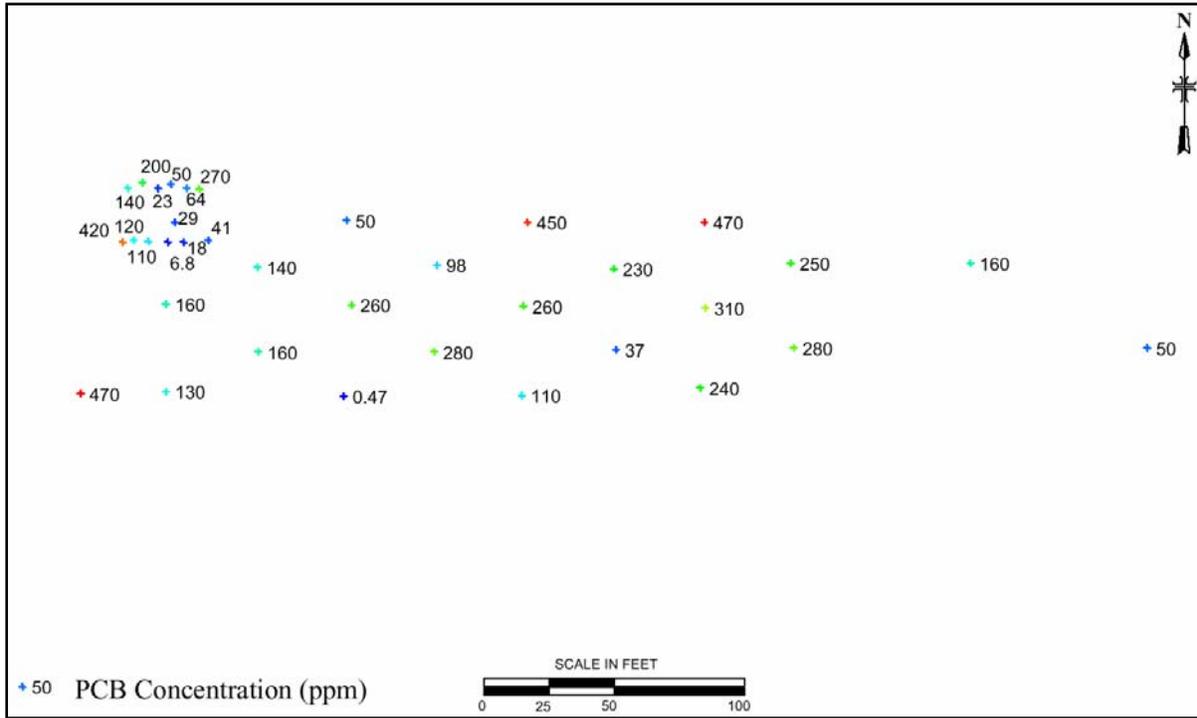
**Figure 2-10
New Bedford Harbor Core and Grab Sample Locations**



Final Pre-Design Field Test Dredge Technology Evaluation Report, New Bedford Harbor Superfund Site, New Bedford, Massachusetts.
Prepared by Foster Wheeler Environmental Corporation, Boston, Massachusetts. August 2001.

From U. S. Army Corps of Engineers (USACE). 2001.

Figure 2-11
New Bedford Harbor (Grab Sample Locations) Semi-Variogram Analysis Variable Grid Spacing



Final Pre-Design Field Test Dredge Technology Evaluation Report, New Bedford Harbor
 Superfund Site, New Bedford, Massachusetts.
 Prepared by Foster Wheeler Environmental Corporation, Boston, Massachusetts. August 2001.

From U. S. Army Corps of Engineers (USACE). 2001.

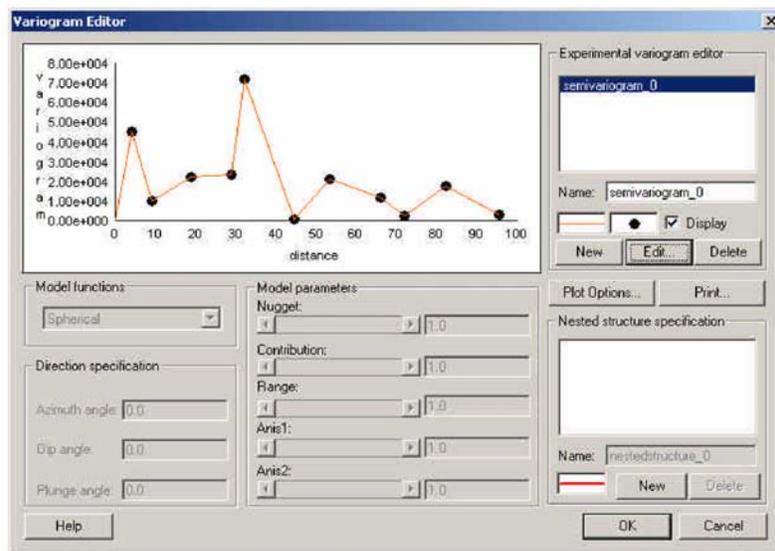
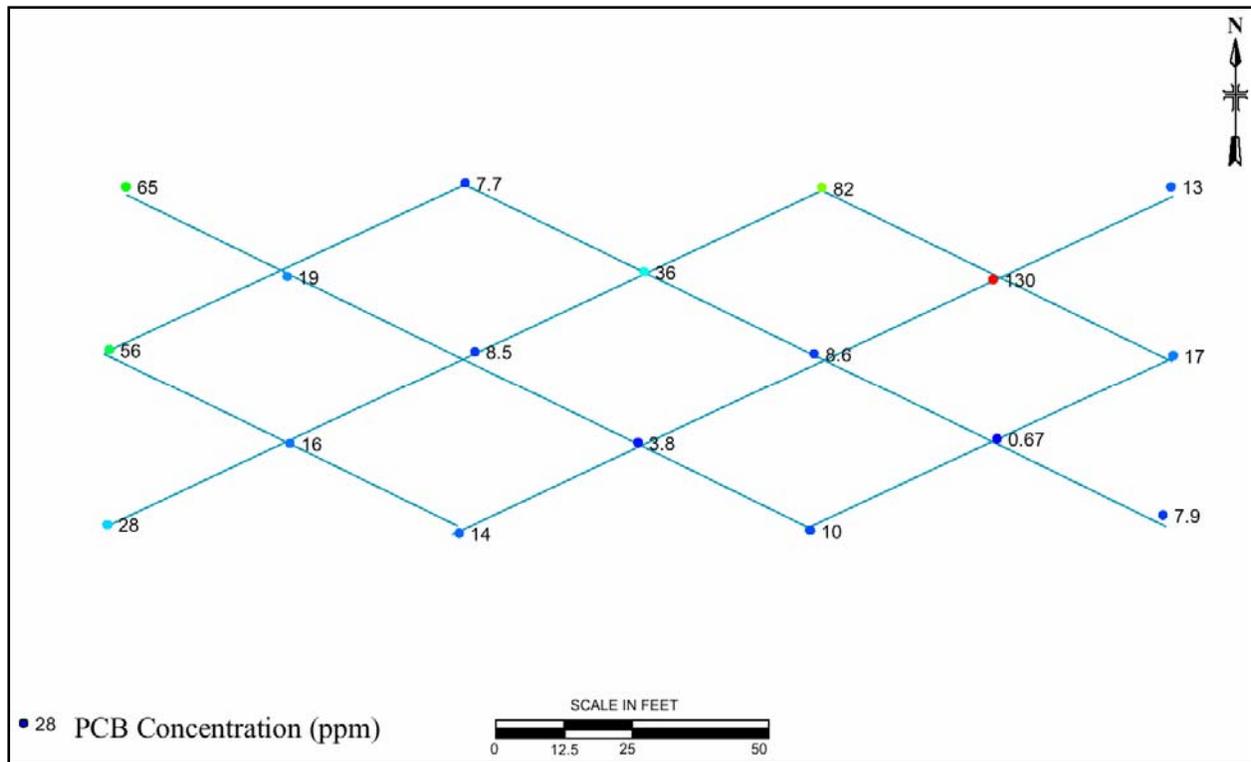
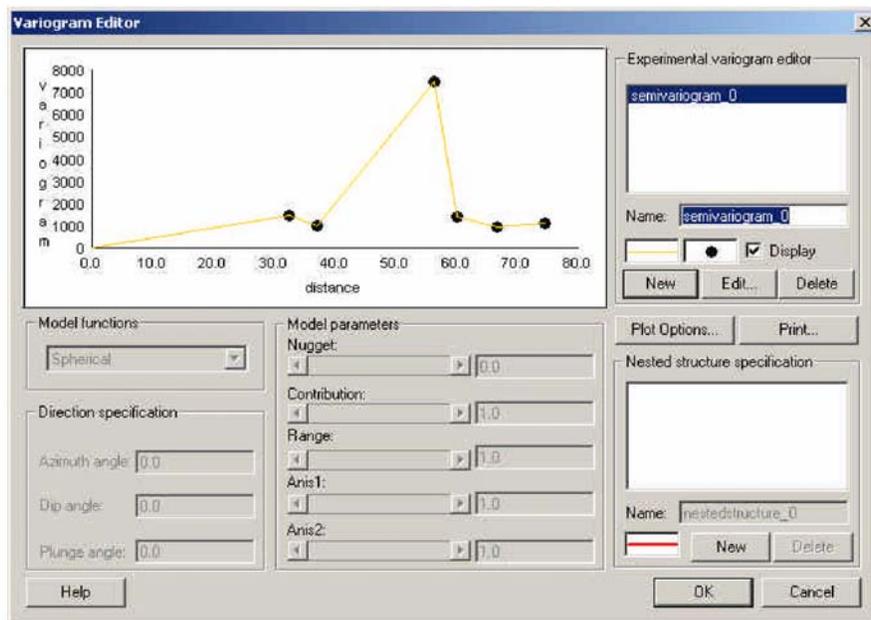


Figure 2-12
New Bedford Harbor Core Sample Semi-Variogram Analysis 40' Triangular Grid Spacing



Final Pre-Design Field Test Dredge
 Technology Evaluation Report, New Bedford Harbor Superfund Site, New Bedford, Massachusetts.
 Prepared by Foster Wheeler Environmental Corporation, Boston, Massachusetts. August 2001.

From U. S. Army Corps of Engineers (USACE). 2001.



**Figure 2-13
Cumberland Bay Semi-Variogram Analysis Variable Sample Spacing**

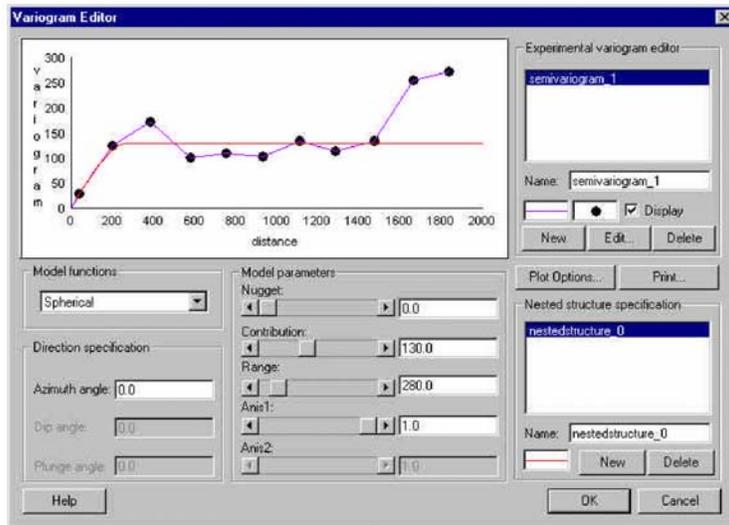
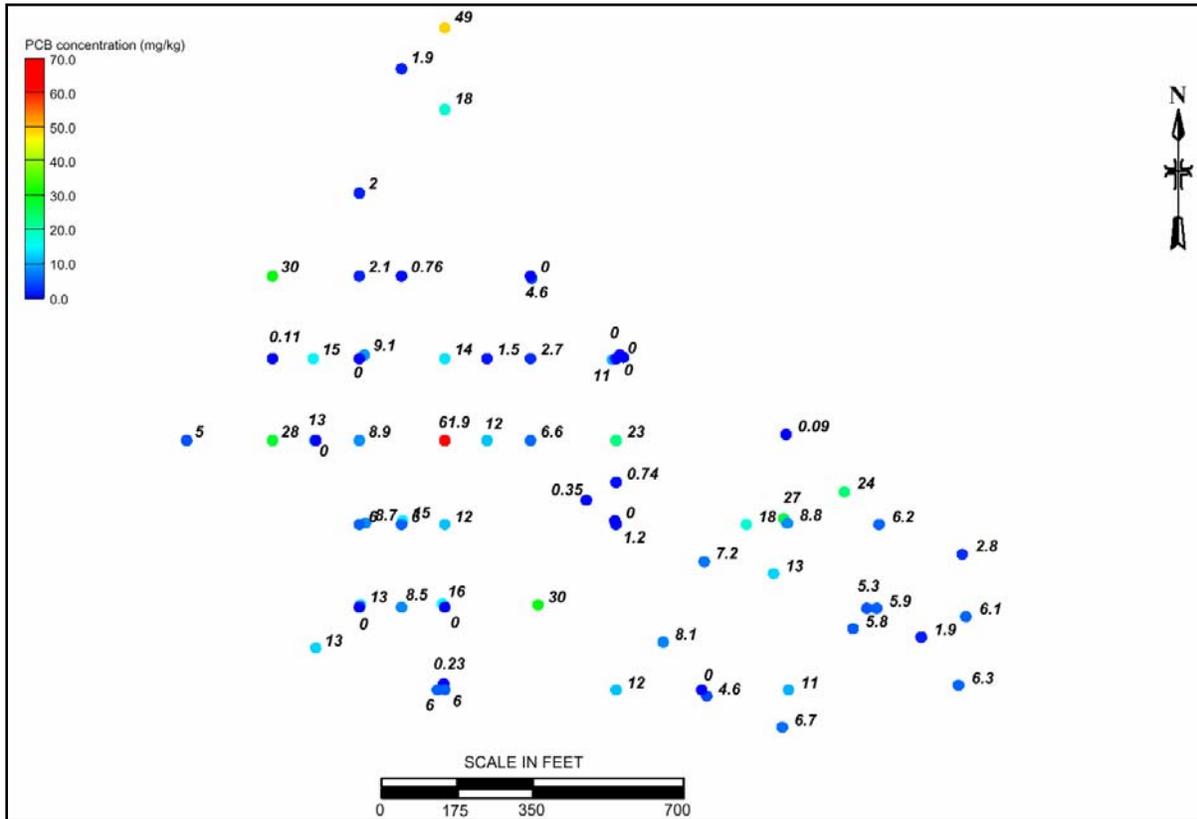
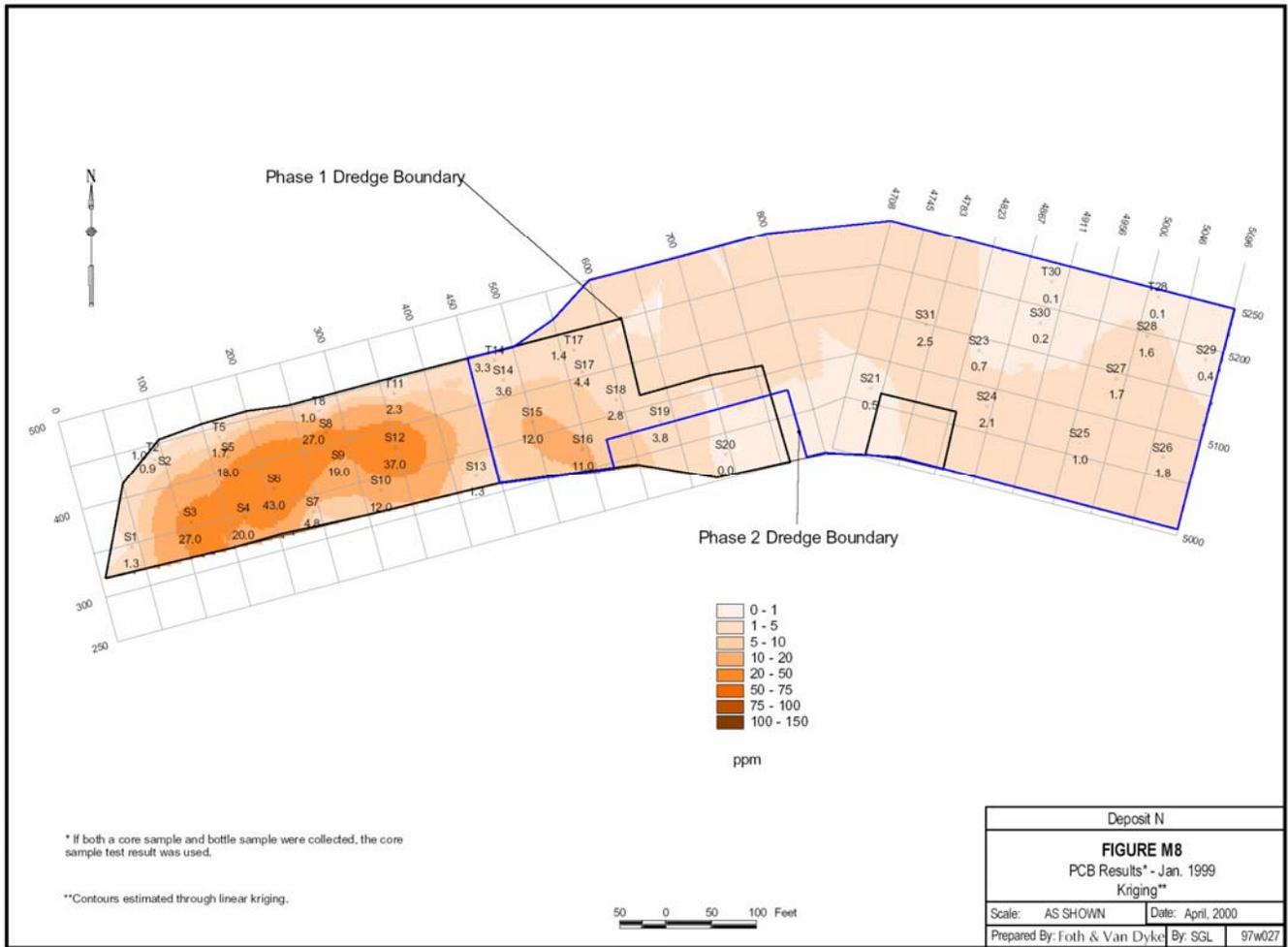


Figure 2-14
Fox River Deposit N Semi-Variogram Analysis Variable Sample Spacing



Summary Report Fox River Deposit N. Prepared by Foth and Van Dyke.
 April 2000.

From Wisconsin Department of Natural Resources, 2000.

Figure 2-14
Fox River Deposit N Semi-Variogram Analysis Variable Sample Spacing

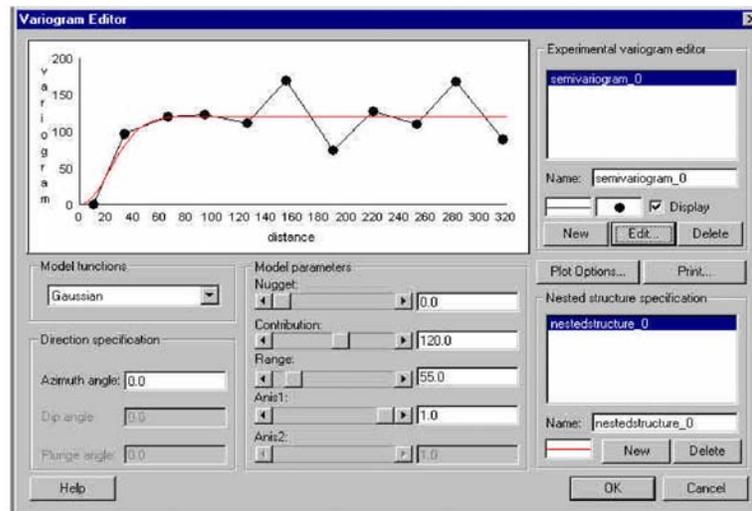
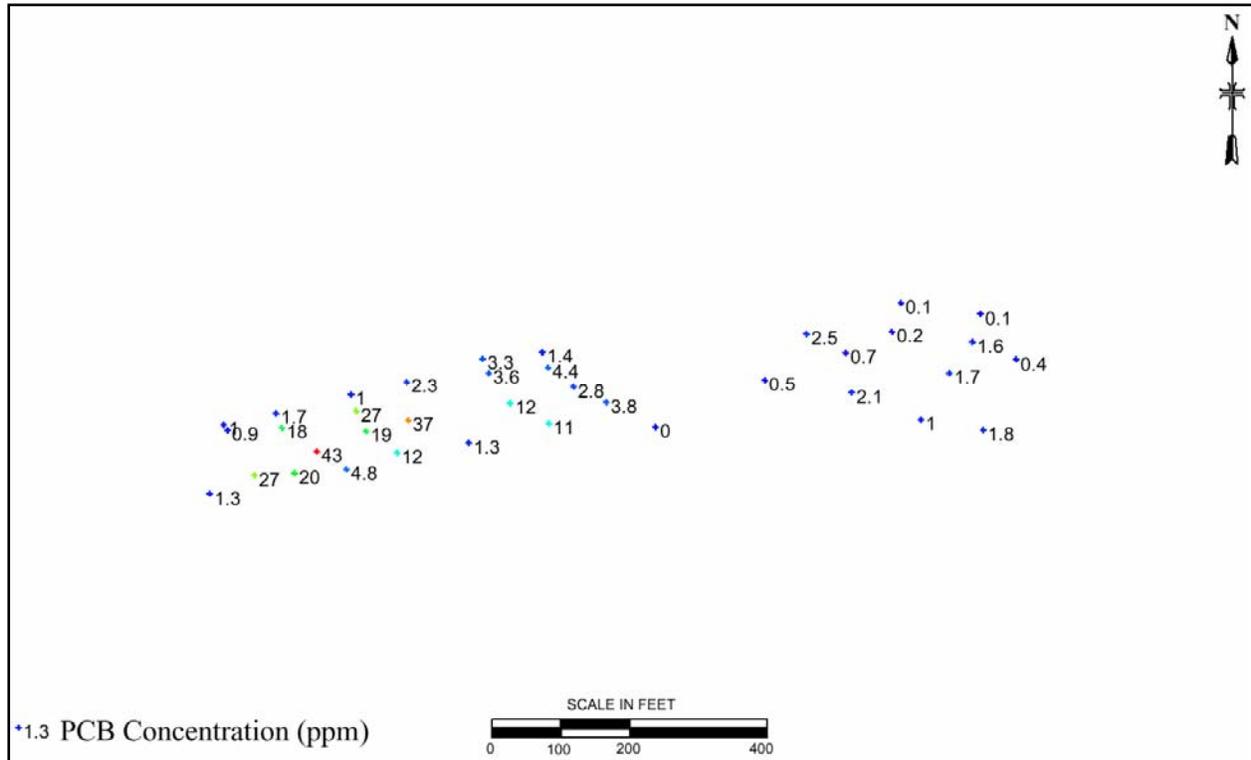
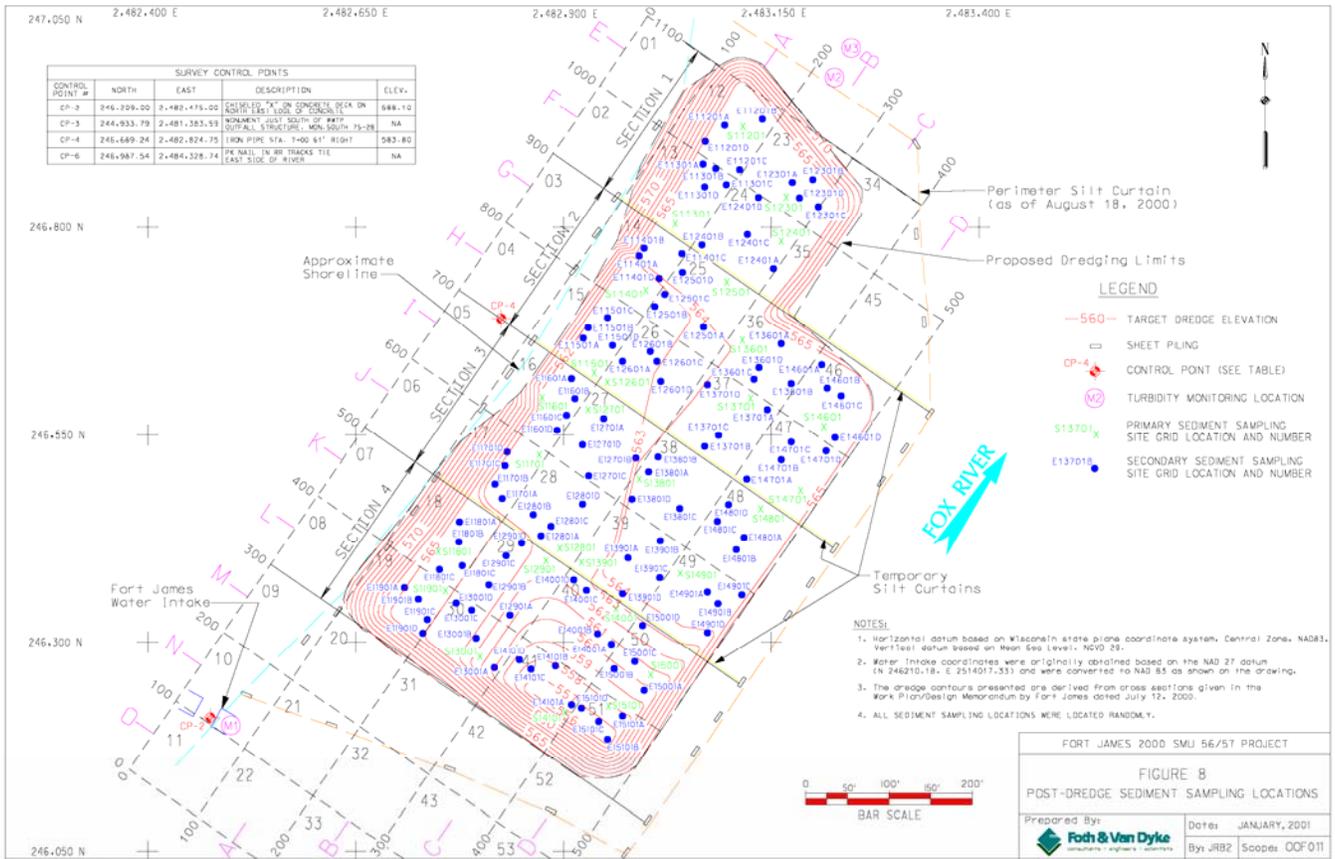


Figure 2-15
Fox River SMUs 56/57 Semi-Variogram Analysis Variable Sample Spacing



Final Report 2000 Sediment Management Unit 56/57 Project Lower Fox River, Green Bay, Wisconsin.
 Prepared by Fort James Corporation, Foth & Van Dyke and Hart Crowser, Inc. January 2001.

From Wisconsin Department of Natural Resources and United States Environmental Protection Agency, 2001.

Figure 2-15
Fox River SMUs 56/57 Semi-Variogram Analysis Variable Sample Spacing

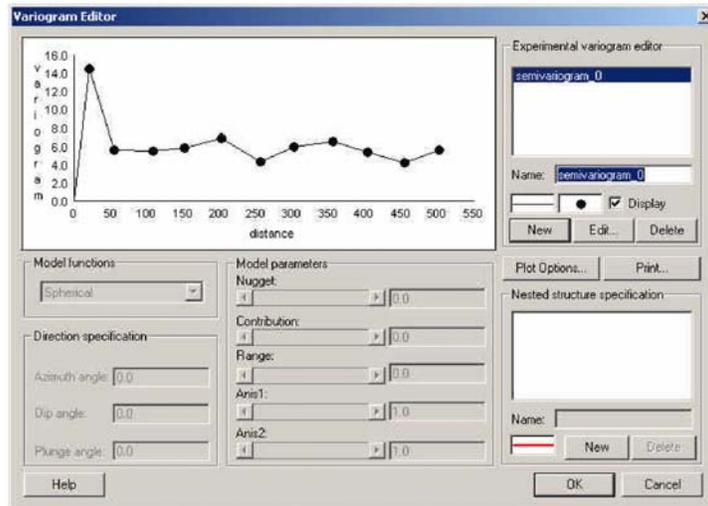
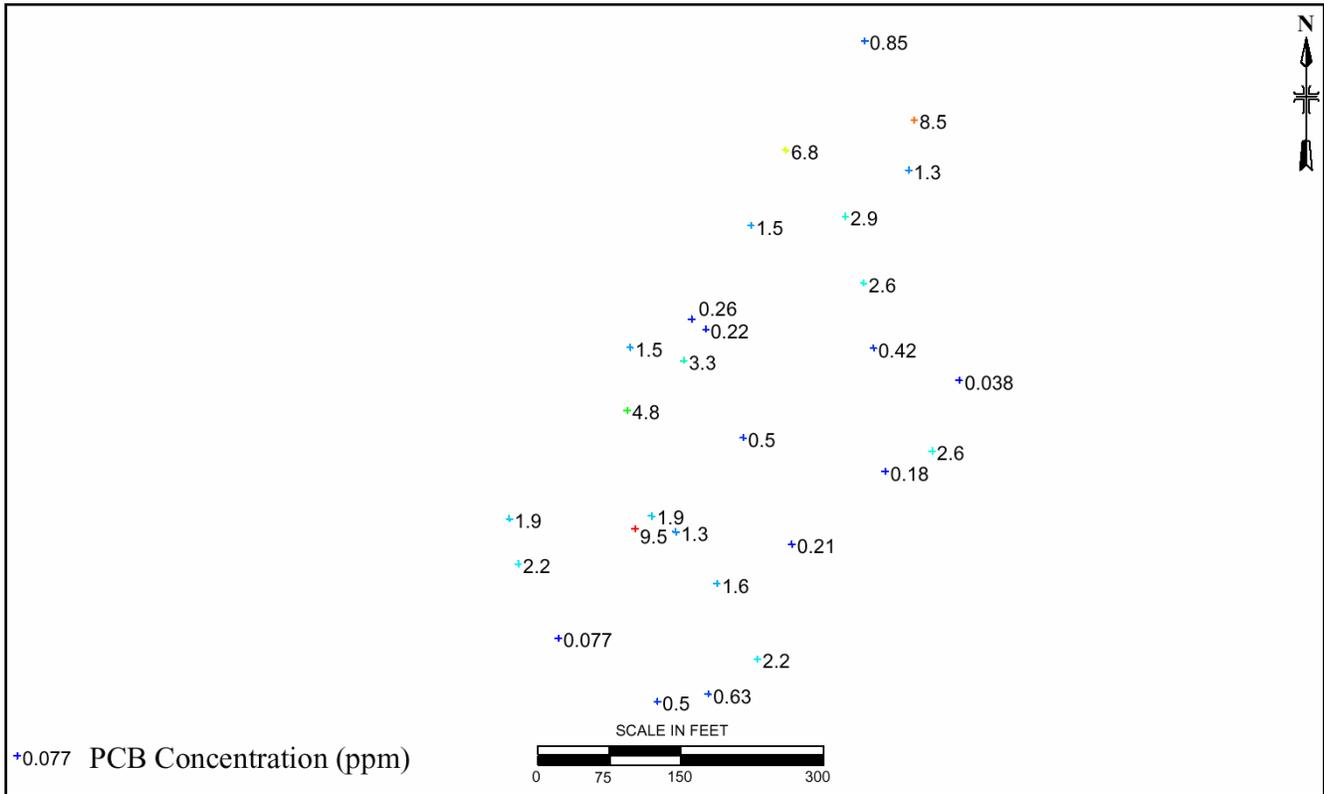
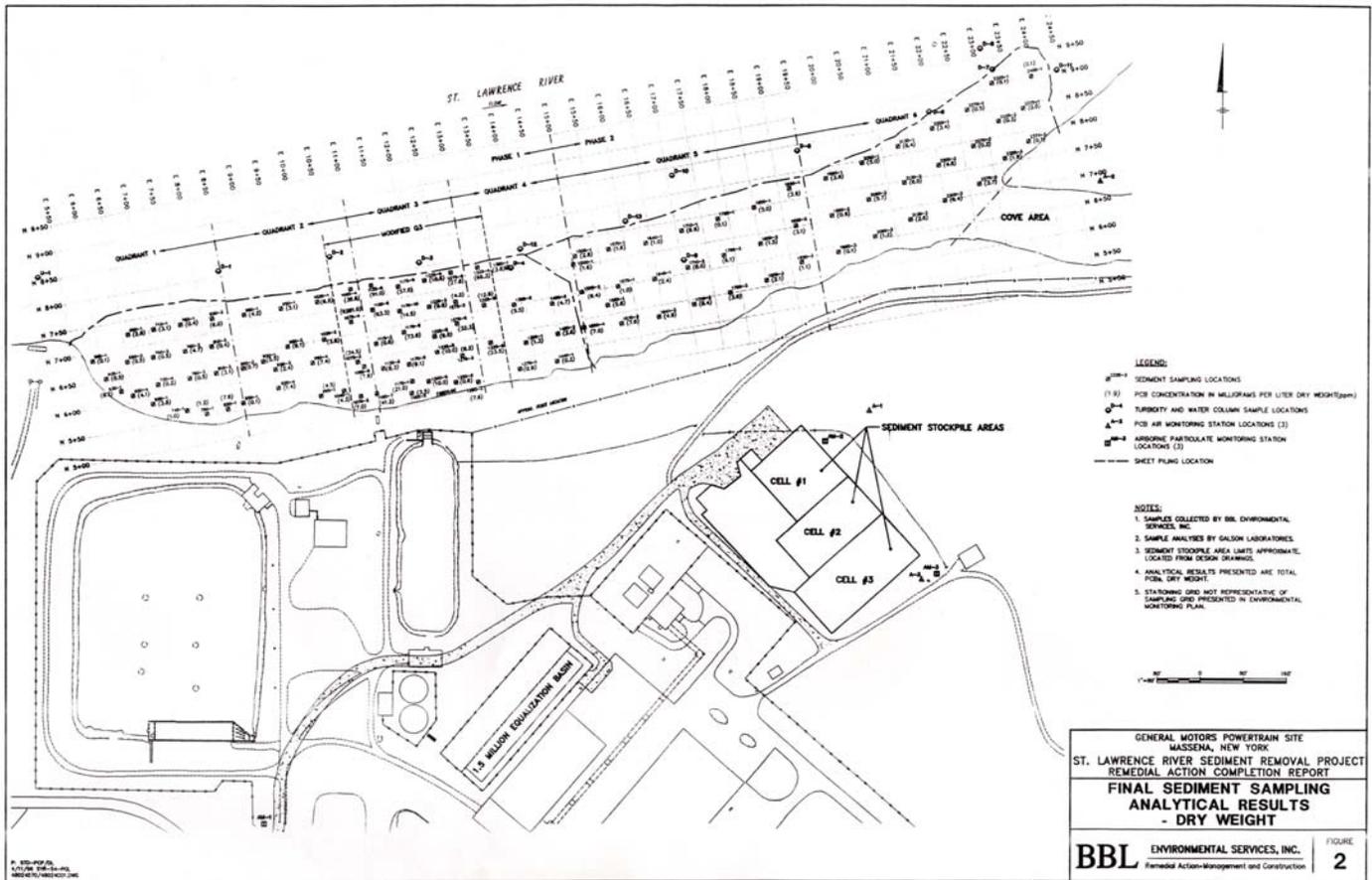


Figure 2-16
GM Massena Semi-Variogram Analysis Variable Sample Spacing



St. Lawrence River Sediment Removal Project Remedial Action Completion Report,
 General Motors Powertrain, Massena, New York.
 Prepared for General Motors Powertrain. June 1996.

From BBL Environmental Services, Inc. 1996.

Figure 2-16
GM Massena Semi-Variogram Analysis Variable Sample Spacing

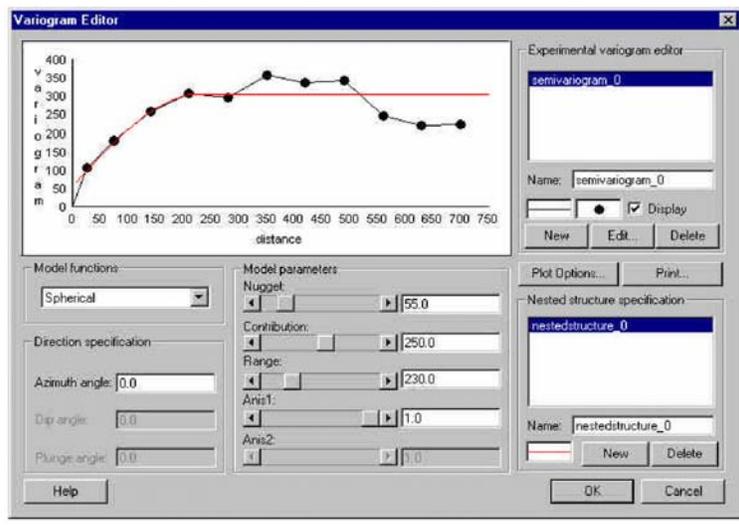
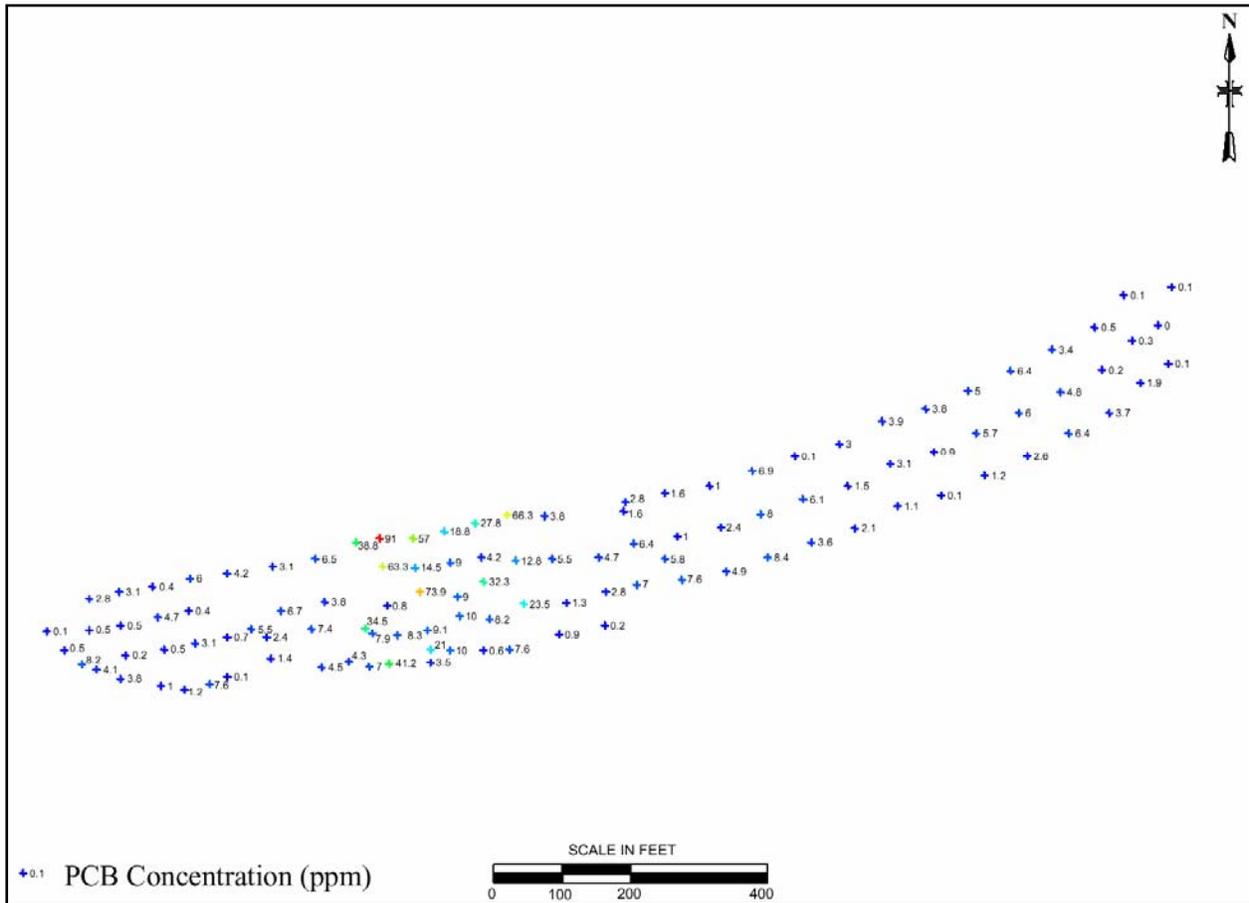


Figure 3-1

Residual Evaluation Flow Chart

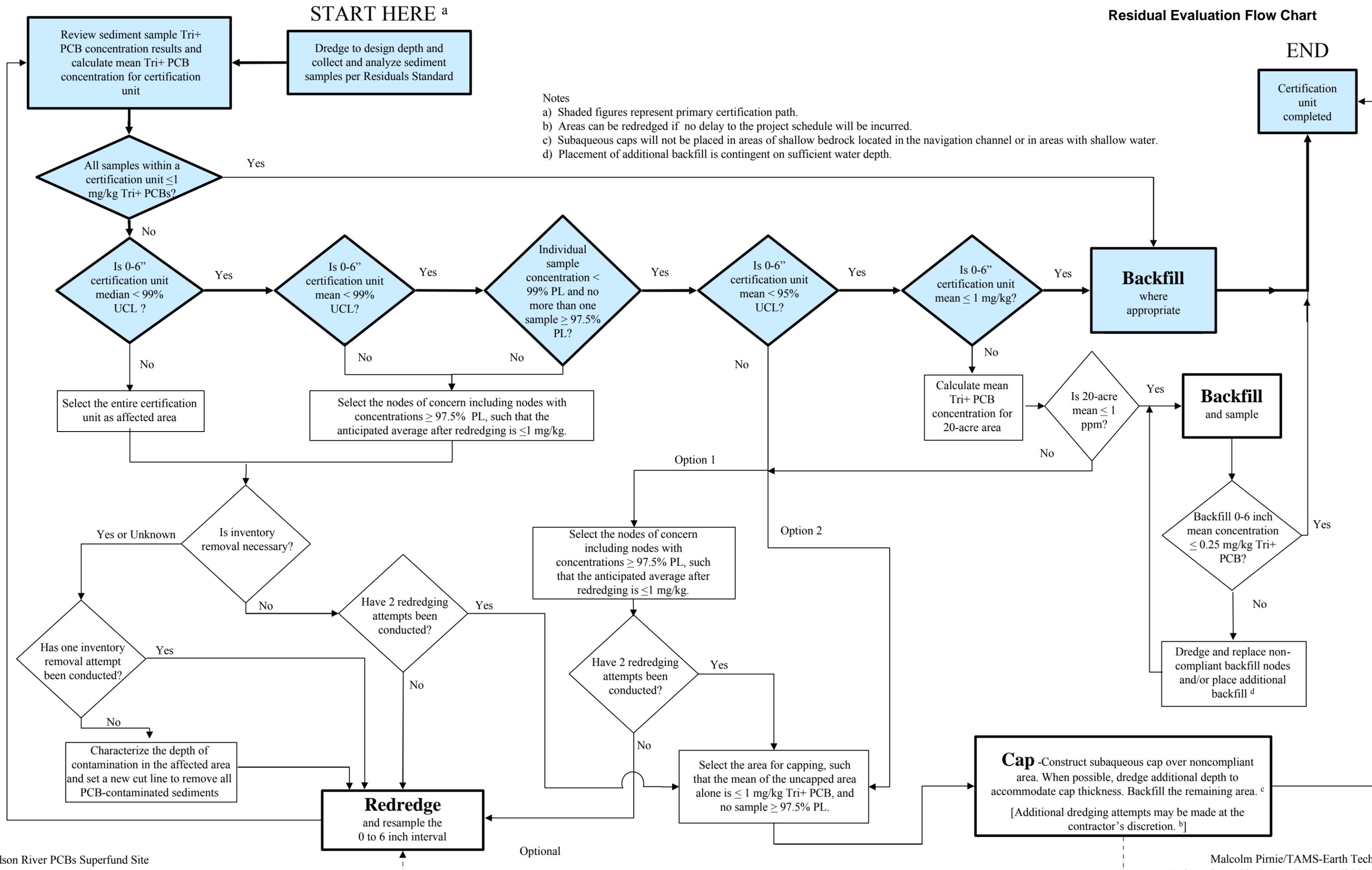
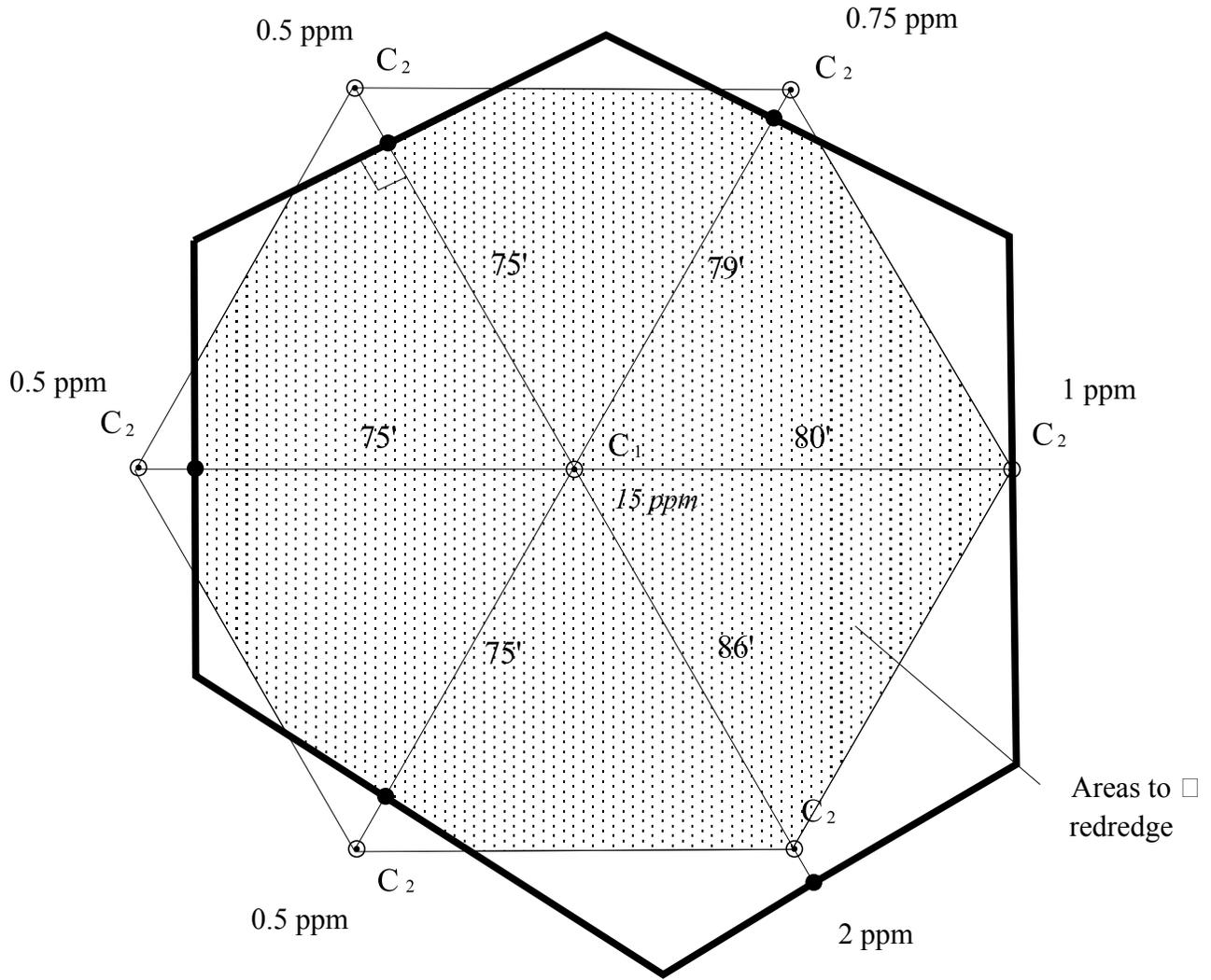


Figure 4-1
 Example of Determining the Extent of Re-Dredging



Notes:

- The distance (d) between the nodes is 80'.
- Each side of the boundary is perpendicular to the axis between the nodes.
- The non-compliant area will not extend beyond the hexagon formed by connecting the 6 surrounding nodes.
- The drawing is conceptual and not to scale.