FINAL Environmental Indicator Inspection Report For For Former CE-Cast Facility Muse-Bishop Road Muse, PA 15350

USEPA ID # PAD 045 873 197

PADEP CONTRACT NO. ME-359186 WORK REQUISITION NO. 30-147

Submitted to:



Commonwealth of Pennsylvania
Department of Environmental Protection
Central Office
Rachael Carson State Office Building
Harrisburg, PA 17105-8471



United States Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2039

December 2003



Tetra Tech FW, Inc. One Oxford Valley – Suite 200 Langhorne, PA 19047 - 1829



APPENDIX A INSPECTION PHOTOGRAPHS FORMER CE-CAST FACILITY MUSE, PA 15350



Picture #1 - Residential area on Acorn Way.



Picture #2 - Old mine shaft.



Picture #3 - Railroad siding area.



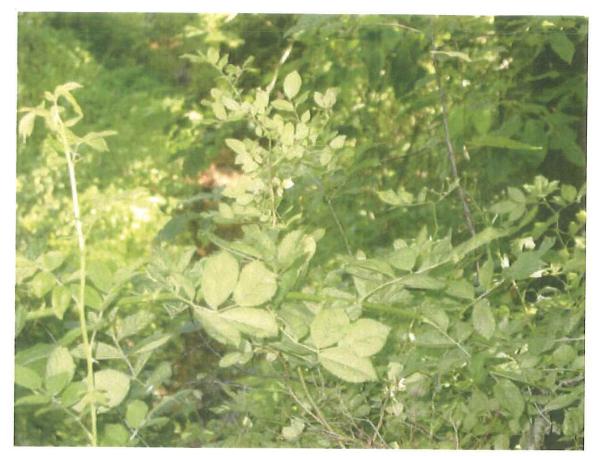
Picture #4 - Area of MW-4.



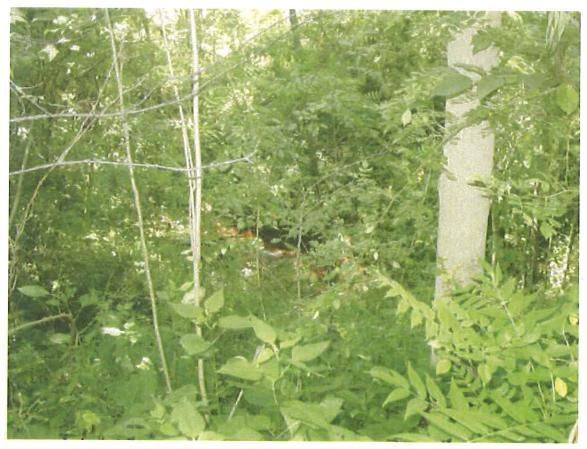
Picture #5 - Former plant area.



Picture #6 - Former lagoon area.



Picture #7 - Unnamed tributary.



Picture #8 - Unnamed tributary.



Picture #9 - Sedimentation pond.



Picture #10 - Former buried drum area/



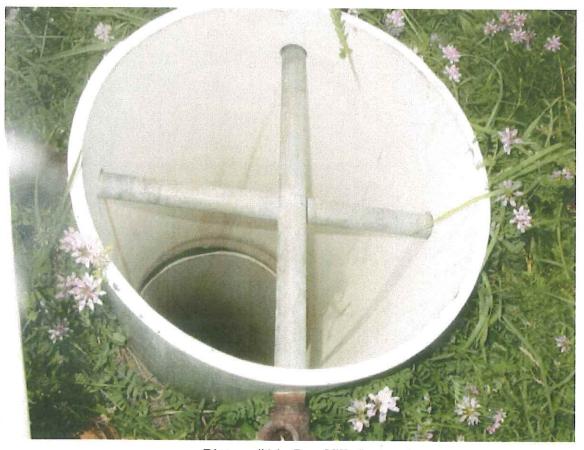
Picture #11 - Outfall from underdrain of landfill.



Picture #12 - Wetlands - area of MW903.



Picture #13 - Landfill.



Picture #14 - Landfill cleanout.

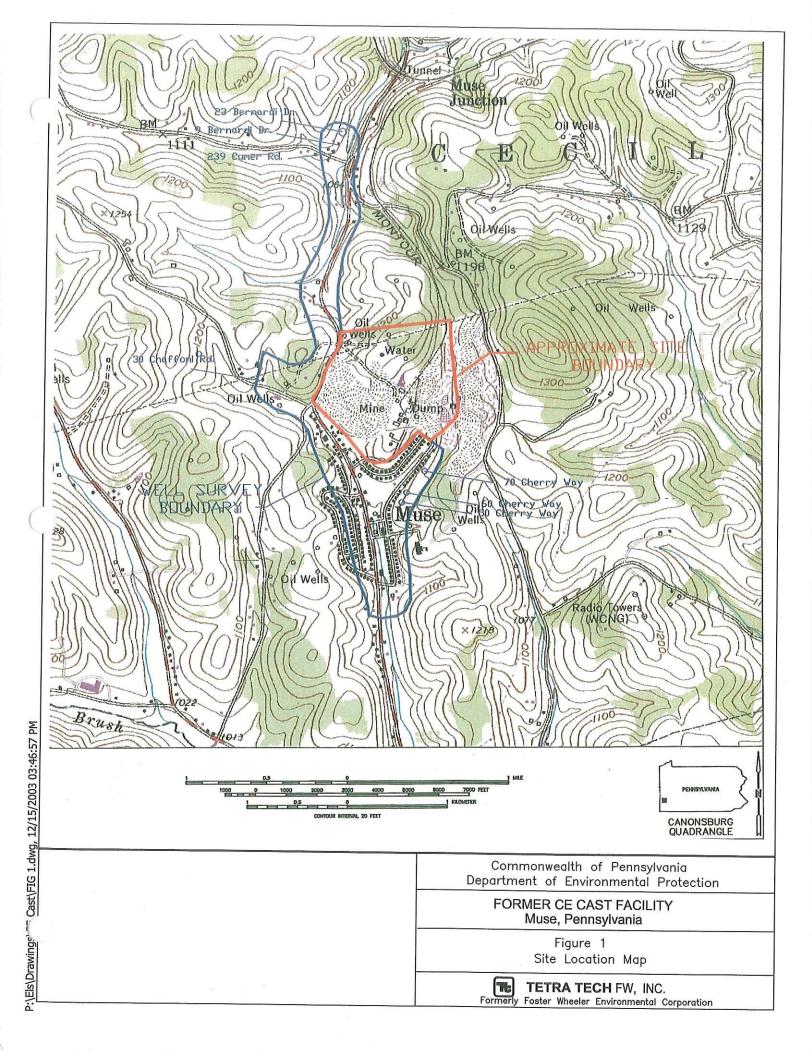


Picture #15 - Production well.



Picture #16 - Former tank area.

APPENDIX B SITE LOCATION MAP FORMER CE-CAST FACILITY MUSE, PA 15350





LEGEND:

● LF-1

LANDFILL WELLS INSTALLED 1980

MW−203

MONITORING WELL LOCATION INSTALLED 1990'S SEDIMENT SAMPLE LUCATION (1992-1993)

△ SD-202 ▲ SW-101

SURFACE WATER SAMPLE LUCATION (1992-1993)



SUIL REMEDIATION AREAS (1995)

APPROXIMATE SITE BOUNDARY

+++++

FORMER RAILROAD TRACKS



ARBITRARY BOUNDARIES BETWEEN FOUR AREAS OF SITE LANDFILL, MAIN PLANT, COAL REFUSE AND UNDEVELOPED



"ACTUAL UNDERDRAIN ALIGNMENT BASED ON 2002 "A" IS APPROXIMATE LOCATION OF HISTORIC OUTFALL
"B" IS CURRENT LOCATION. THE " SYMBOL REPRESENTS ALIGNMENT PRESENTED IN 1980 DESIGN DOCUMENTS

APPROXIMATE AREA EXCAVATED AND PLACED IN LANDFILL 1980

- 1. LOCATION OF TRIBUTARY AND PROPERTY
- 2. CLUSED LANDFILL AND SEDIMENT PUND ARE PRIMARY FEATURES SINCE 1996. REMAINDER OF THE PROPERTY IS VACANT GRASS, AND WOODED LAND.
- 3. SEDIMENT PUND CONSTRUCTED IN 1995
 IS PART OF THE SOILS REMEDIATION.
 OTHER SURFACE CONTOURS IN THE MAIN
 PLANT AREA MAY BE DIFFERENT DUE TO 1995 REMEDIAL ACTIVITIES.

DRAFT

REFERENCES:

DRAWING NO. 910708 TITLED "SURVEY, COMBUSTION ENGINEERING SUBDIVISION NO. 1 CECIL TOWNSHIP, WASHINGTON CO." DATED 7/8/91 BY MOUNTS ENGINEERING. SURVEYED BY JONATHAN MOUNTS

PLAN REFERENCED FROM ABB FIGURE 5832-23 G PLATE 3.

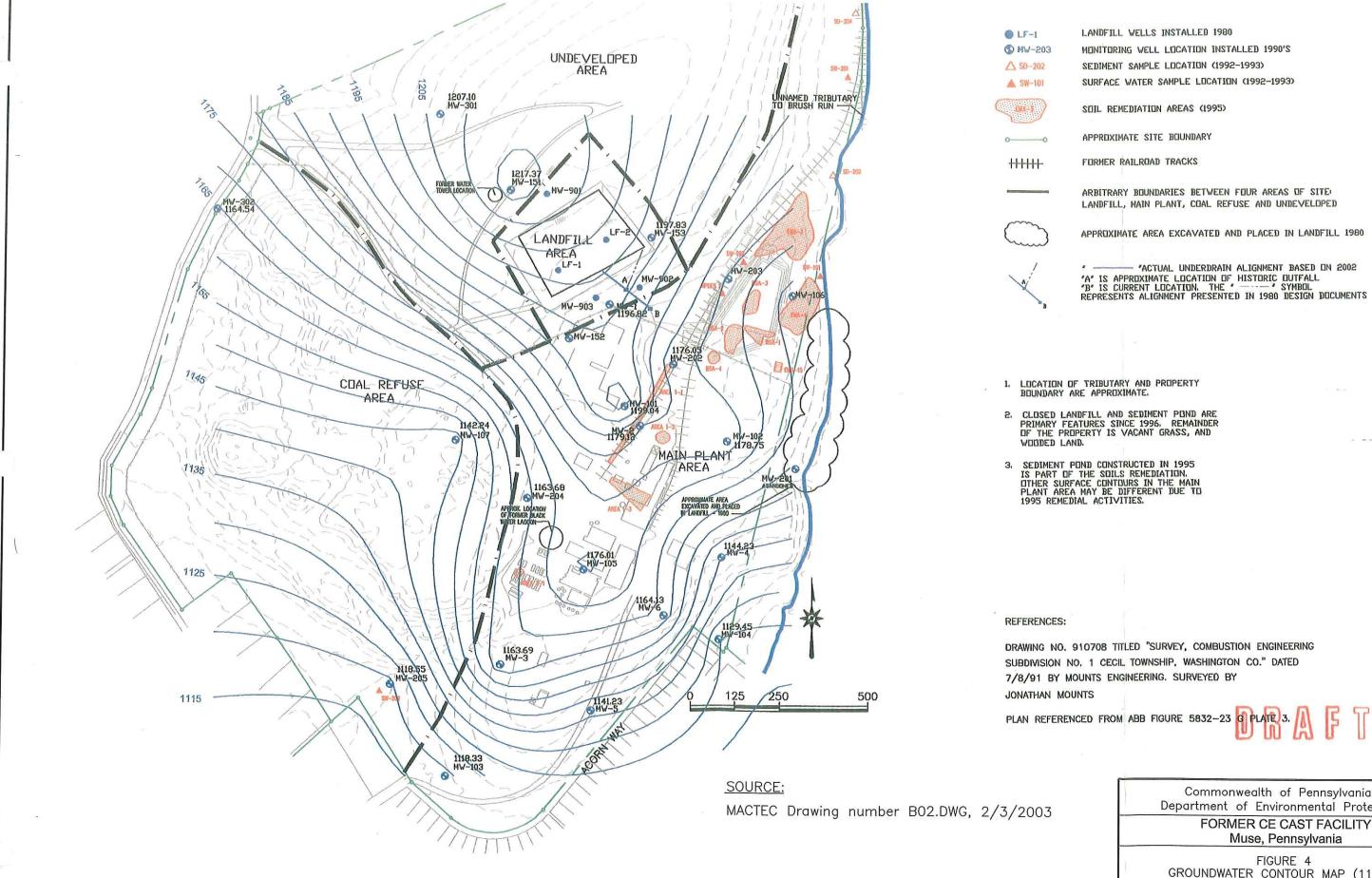
Commonwealth of Pennsylvania Department of Environmental Protection

> FORMER CE CAST FACILITY Muse, Pennsylvania

> > FIGURE 2 SITE PLAN



TETRA TECH FW, INC.
Formerly Foster Wheeler Environmental Corporation



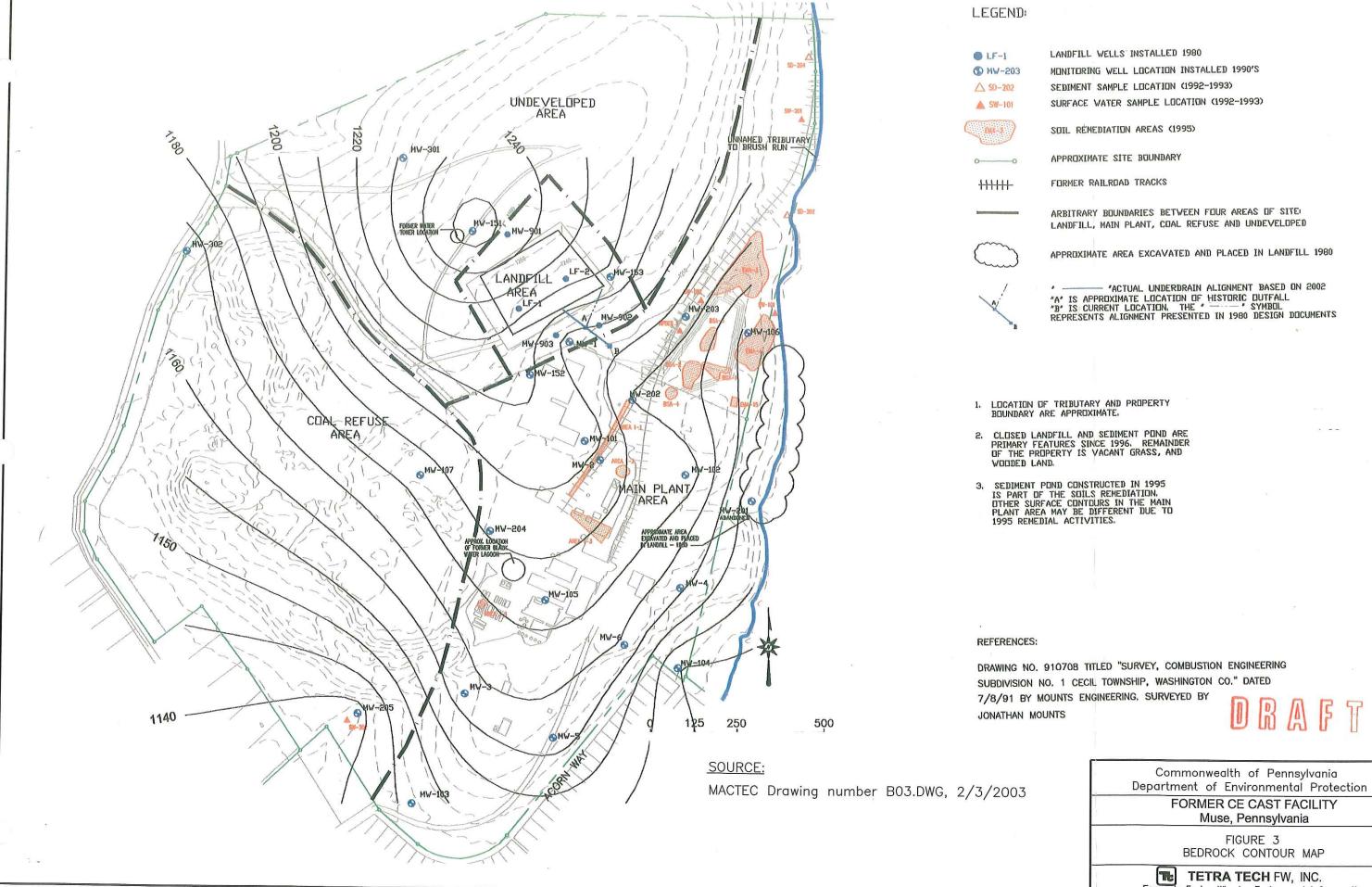
CE Cast\FIG 4.dwg, 12/15/2003 03:26:17 PM

Commonwealth of Pennsylvania Department of Environmental Protection

> FORMER CE CAST FACILITY Muse, Pennsylvania

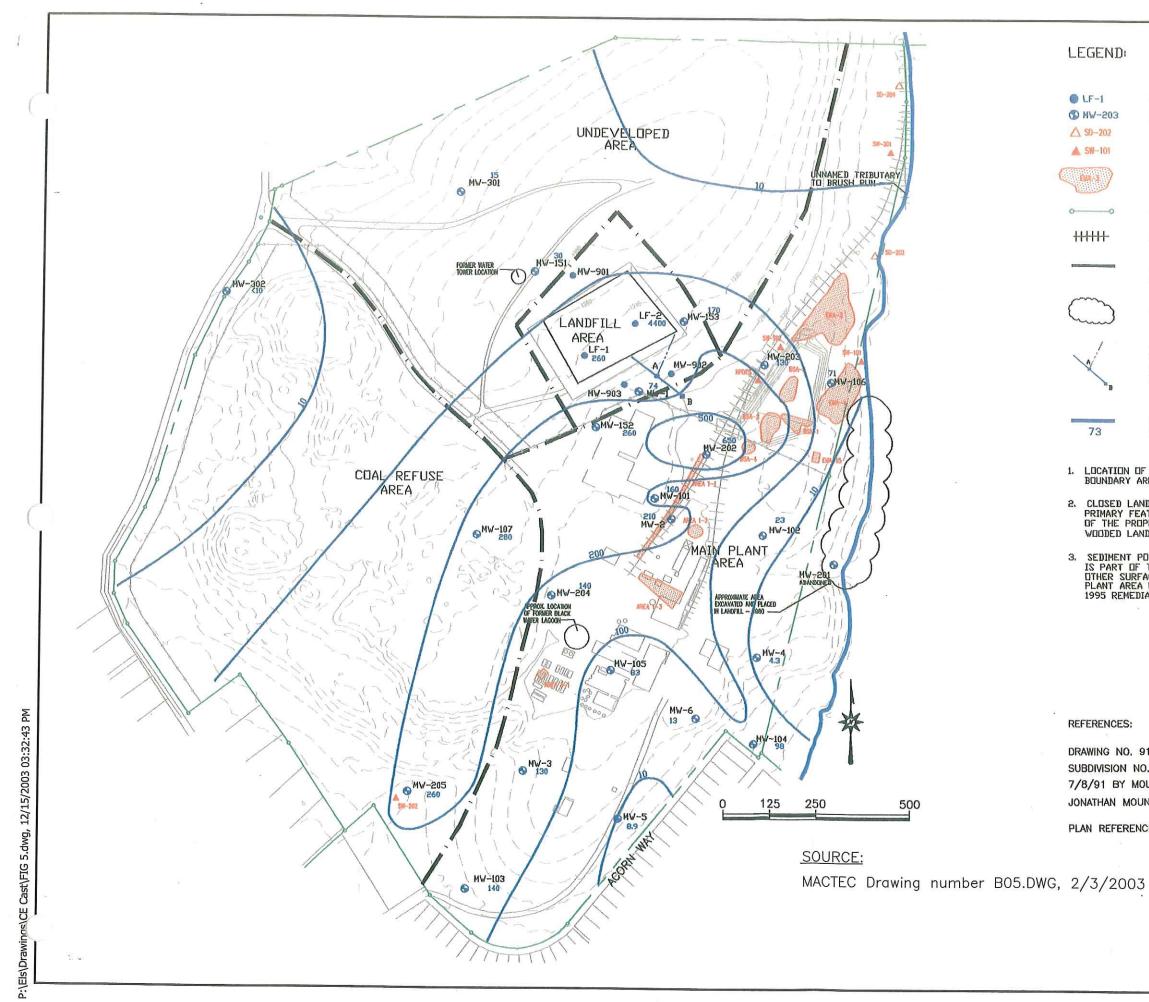
GROUNDWATER CONTOUR MAP (11-02)

TETRA TECH FW, INC. Formerly Foster Wheeler Environmental Corporation



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ormerly Foster Wheeler Environmental Corporation



LEGEND:

● LF-1

LANDFILL WELLS INSTALLED 1980

D MW-203

MONITORING WELL LOCATION INSTALLED 1990'S

△ SD-202

SEDIMENT SAMPLE LOCATION (1992-1993)

▲ SW-101

SURFACE WATER SAMPLE LOCATION (1992-1993)



SDIL REMEDIATION AREAS (1995)

APPROXIMATE SITE BOUNDARY

+++++

FORMER RAILROAD TRACKS



ARBITRARY BOUNDARIES BETWEEN FOUR AREAS OF SITE LANDFILL, MAIN PLANT, COAL REFUSE AND UNDEVELOPED



APPROXIMATE AREA EXCAVATED AND PLACED IN LANDFILL 1980



- 'ACTUAL UNDERDRAIN ALIGNMENT BASED ON 2002 'A' IS APPROXIMATE LOCATION OF HISTORIC OUTFALL
'B' IS CURRENT LOCATION. THE ' ---- ' SYMBOL
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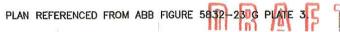
1,4 DIOXANE CONTOURS (Ug/L)

1,4 DIOXANE CONCENTRATIONS AT EACH VELL MAY, 2002 (Ug/L)

- 1. LOCATION OF TRIBUTARY AND PROPERTY BOUNDARY ARE APPROXIMATE.
- 2. CLUSED LANDFILL AND SEDIMENT PUND ARE PRIMARY FEATURES SINCE 1996. REMAINDER OF THE PROPERTY IS VACANT GRASS, AND WOODED LAND.
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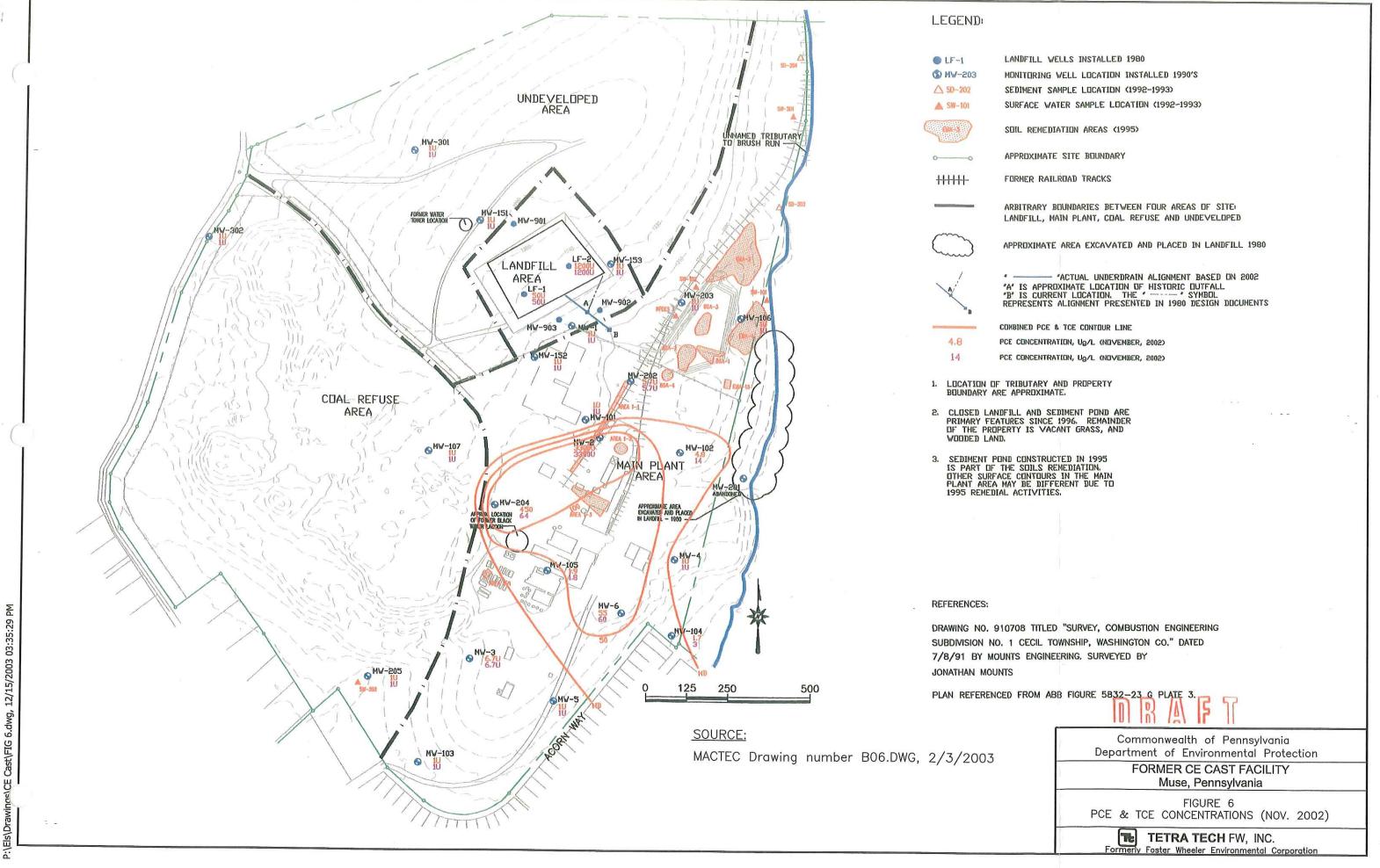


Commonwealth of Pennsylvania Department of Environmental Protection

> FORMER CE CAST FACILITY Muse, Pennsylvania

FIGURE 5 1,4 DIOXANE CONCENTRATIONS (NOV. 2002)

TETRA TECH FW, INC. Formerly Foster Wheeler Environmental Corporation



APPENDIX C INVENTORY OF DOCUMENTATION FORMER CE-CAST FACILITY MUSE, PA 15350

- 1. **February 13, 2003** Letter from PADEP to Combustion Engineering/CE Cast Muse regarding RCRA Corrective Action at the facility PADEP (Pittsburgh) files.
- 2. **March 1995** Phase III Site Characterization Report, Former C-E Cast Facility, Muse, Pennsylvania PADEP files.
- 3. **April 1996** Phase IV Soil Remediation Report, Former C-E Cast Facility, Muse, Pennsylvania PADEP files.
- 4. July 18, 1980 Notification of Hazardous Waste Activity USEPA files.
- 5. **July 18, 1980** Part A USEPA General Information Packet for Consolidated Permits Program USEPA files.
- 6. June 18, 1981 Letter from C-E Cast to USEPA regarding landfill closure USEPA files.
- 7. **October 24, 1973** Letter from PADER to C-E Cast regarding problems that needed to be remediated PADEP files.
- 8. May 12, 1980 Consent Order and Agreement from PADER to C-E Cast USEPA files.
- 9. **March 1994** C-E Cast Facility, Muse, Pennsylvania, Report of Filed Investigation Mactec files.
- 10. **February 4, 2003** November 2002 Groundwater Monitoring Results CE Cast-Muse, Pa Mactec files.
- 11. February 21, 1990 Registration of Storage Tanks PADEP files.
- 12. February 7, 1991 Tank Closure Report Form PADEP files.
- 13. April 8, 1991 Registration of Storage Tanks PADEP files.
- 14. **February 21, 1991** Spill Prevention Response Plan for Combustion Engineering, Inc. PADEP files.
- 15. **September 21, 1993** Letter from PADEP to Combustion Engineering regarding the closure of Outfalls 001 and 002–PADEP files..

- 16. October 7, 1993 Letter from C-E Cast to PADEP regarding the closure of Outfalls 001 and 002– PADEP files..
- 17. **November 26, 2002** Letter from PADEP to residents on Cherry Way informing them of sampling of their drinking water PADEP files.

REFERENCES