LEGEND

- PERMIT BOUNDARY
- SUBSIDENCE CONTROL PLAN BOUNDARY
- NO MINING ZONE
- DEPTH OF COVER LINE
- PRIOR DEEP AND SURFACE MINING
- PROTECTED AREA – SUBSIDENCE (25° ANGLE OF DRAW)
- GAS WELL
- WATER WELL
- SPRING
- POND/IMPOUNDMENT
- FLOW MEASUREMENT PT.
- PERENNIAL STREAM
- INTERMITTENT STREAM
- PIPELINE/UGROUND CABLE (Elev. all or gas labeled)
- PROPERTY LINE
- POWER LINE (500 KVA or larger)
- COAL CONTOUR LINE
- CROPLINE
- FAULT w/ LOW COAL LINE
- 1000' PERIMETER LINE
- STATE ROAD
- TOWNSHIP ROAD
- UNIMPROVED ROAD
- DEEPMINES REFERENCED TO MODULE 9.2
- BOREHOLE (MINE OPENINGS)
- DRILL HOLE
- PROTECTED STRUCTURE
- NONPROTECTED STRUCTURE
- DWELLING BUILT AFTER APRIL, 1966
- BACKGROUND GROUNDWATER SAMPLE PT.
- EXISTING GROUNDWATER MONITORING PT.
- BACKGROUND SURFACE SAMPLE PT.
- SURFACE WATER MONITORING PT. (existing & proposed)
- P.W.S. PUBLIC WATER SUPPLY
- CURRENT MINING
- SURFACE PERMIT AREA
- BRIDGE
- CULVERT
- RAILROAD
- SWAMP/MARSH
- DITCH → OR DRAINS
- TOE OF SPOIL, ROCK OR COAL REFUSE PILE
- CHURCH
- CEMETERY

NOTES:

1. 20' SURFACE CONTOUR INTERVAL

Lucerne No. 9 Mine
AAVop
CMAP No. 32841317

IND02691 SURF. ELEV. 1138.56 WATER ELEV. NONE U.K. ELEV. 1074.64

IND02688 SURF. ELEV. 1205.04 WATER ELEV. 1169.04 U.K. ELEV. 1160.07

IND03002 SURF. ELEV. 1345.04 WATER ELEV. NONE U.K. ELEV. 1174.15

IND01833 SURF. ELEV. 1360.00 WATER ELEV. 1319.00 U.K. ELEV. 1141.62

IND02816 SURF. ELEV. 1300.81 WATER ELEV. NONE U.K. ELEV. 1092.41

IND02817 SURF. ELEV. 1188.79 WATER ELEV. 1132.79 U.K. ELEV. 1094.39

IND03524 SURF. ELEV. 1398.47 WATER ELEV. 1357.47 U.K. ELEV. 1169.39

IND03413 SURF. ELEV. 1382.73 WATER ELEV. 1365.73 U.K. ELEV. 1174.26

IND03412 SURF. ELEV. 1310.95 WATER ELEV. 1170.92 U.K. ELEV. 1114.53

IND03410 SURF. ELEV. 1259.95 WATER ELEV. 1129.95 U.K. ELEV. 1049.60

IND03424 SURF. ELEV. 1196.78 WATER ELEV. 1164.78 U.K. ELEV. 1058.91

IND03414 SURF. ELEV. 1401.70 WATER ELEV. NONE U.K. ELEV. 1187.20

IND03423 SURF. ELEV. 1374.12 WATER ELEV. 1332.12 U.K. ELEV. 1153.12

MAR-GW-20 MAR-GW-19 MAR-GW-17 MAR-GW-16 MAR-GW-18 MAR-MD-1

GW-25 GW-26 GW-9 GW-12 GW-13 GW-23 GW-14 GW-1 GW-8 GW-7 GW-21 GW-22 GW-5 GW-6 GW-15 GW-16 GW-3 GW-2 GW-20 GW-18 GW-19 GW-17

SW-6 SW-5 SW-4 SW-3 SW-2 SW-1

25 DEGREE ANGLE OF DRAW

GEOLOGIC CROSS-SECTION A-A'

GEOLOGIC CROSS-SECTION B-B'

PERMIT BOUNDARY

25 Degree Angle of Draw Line

1000' PERIMETER

FIRST MINING ONLY

T-457

T-433

KENT NO. 9

KENT NO. 8

RECEIVED
SEP 17 1992
Dept. of Environmental Resources
St. McMurray District Office

HELVETIA COAL COMPANY

ENGINEERING / ENVIRONMENTAL COMPLIANCE DEPARTMENT

Operation: LUCERNE NO. 9 EXTENSION MINE	Permit No:
Township: CONEMAUGH AND YOUNG	County: INDIANA
Coal Seam: UPPER KITTANNING	Geologic Group: ALLEGHENY

EXHIBIT 19.2
ENVIRONMENTAL RESOURCES MAP

Date	Revisions
SEP 17 1992	

SEAL

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DAVID E. YINGLING ENGINEER No. 027331-E

Date:	8/14/92
Scale:	1" = 400'
Approved By / Date:	
Drawing No:	

David E. Yingling