### ANNUAL REPORT 2011

#### ABANDONED MINES AND PITS INSPECTED 2011

**Champion Township**
1. Champion Mine (shafts 5, C, X)  
2. East Champion  
3. North Champion  
4. Phoenix  
5. Pascoe  
6. Hortence  
7. North Phoenix  
8. North Hampton  
9. Bessie  
10. Gertrude  
11. Meshard  
12. Champion (shafts 6, 6 1/2, 7)

**Ely Township and Ishpeming Township**
1. Ropes Gold Mine  
2. Grayling  
3. Ishpeming Gold Mine  
4. Peninsula Gold Mine  
5. Superior Gold Mine  
6. Michigan Gold Mine  
7. Non Pareil (St. Lawrence)  
8. Greenwood  
9. Section 16  
10. Excelsior  
11. Loyd  
12. Morris  
13. Blueberry  
14. Michigan  
15. Chase  
16. Dexter/Day  
17. Boston  
18. American  

**Forsyth Township**
1. Princeton  
2. Stephenson  
3. Austin  
4. Francis

**Ishpeming City**
1. Lake Angeline  
2. Salisbury  
3. Hardcore  
4. Jasper Knob  
5. New York  
6. East New York  
7. Mather A  
8. Barnum  
9. Cleveland

**Michigamme**
1. Michigamme Mine

**Negaunee City and Township**
1. Maas  
2. Mather B  
3. Athens  
4. Negaunee  
5. Bunkerhill  
6. Hartford  
7. Cambria-Jackson  
8. South Jackson  
9. Lucy  
10. Breitung  
11. Tracy  
12. Lucky Star  
13. Prince of Wales  
14. South Buffalo  
15. Milwaukee  
16. Mary Charlotte  
17. Rolling Mills  
18. Zhulkie Creek  
19. Beaver  
20. Davis  
21. Fire Center  
22. Holyoke Gold

**Republic Township**
1. Erie  
2. Metropolis  
3. Riverside  
4. Republic  
5. Columbia
Richmond Township
1. Star West  
2. Old Richmond  
3. Primrose  
4. Moore  
5. Platt  
6. Richard  
7. Carr 1  
8. Carr 2  
9. Carr 3  
10. Little Joe  
11. New Richmond  

Tilden Township
1. New England  
2. Saginaw  
3. Fitch  
4. Goodrich  
5. New Burt or Section 19  
6. Winthrop  
7. Mitchelle  
8. National  
9. Howell Hoppock  
10. Lowthian  
11. Section 21  
12. Miller  
13. Parson  
14. Adit TS  
15. Spencer  
16. Albion  

SCHOOL SAFETY PROGRAMS 2011
I participated in the presentation on mines with Leo LaFond at the Republic Michigamme school on May 19th and at the Iron Industry Museum in Negaunee when students from Aspen Ridge school visited there May 23rd.

INSPECTIONS OF ACTIVE MINES 2011

Empire Mine
Managed by Cliffs Natural Resources
I conducted inspections February 18th and the 23rd through the 25th and February 28th and March 1st through the 4th.
I inspected again in September the 12th through the 14th and the 19th through the 23rd.

Tilden Mine
Managed by Cliffs Natural Resources
I conducted safety inspections March 7th through the 9th.
I inspected again September 6th through the 8th.

MISCELLANEOUS WORK IN 2011
I worked with John Elofson of RGGS Minerals, LTD checking the fences surrounding their properties. A copy of the list of mines we checked and the repairs done or scheduled to be done, which Mr. Elofson sent to me, is included at the end of this report.

A project I have been urging Cliffs Natural Resources to get done for the past 11 years was finally completed this year – crusher doors were installed on the crusher at the Tilden Mine.

I inspected sand pits on May 6th, May 9th and May 10th.

On June 1st I visited the Eagle Mine site managed by Kennecott.
MICHIGAN MINES

Fences enclosing mines, shafts and adits listed below were inspected 10/17 - 10/20. There has been much wind damage. A contractor has been notified to make needed repairs in spring of 2012.

CHAMPION MINE AREA
1. East Mine - A single water filled, fenced pit. - Two trees removed & fence repaired.
2. East Mine Shaft 1 - A water filled, fenced area. - Three trees removed & fence repaired.
3. East Mine Shaft 2 - Water filled to surface, fenced. Found 10/16/07 - OK
4. Gibson Mine - A single pit water filled to surrounding surface. - OK

NATIONAL MINE AREA
2. National Mine No. 5 - Pit water filled to surface and fenced. - OK
3. Parson Mine - Pit water filled to surface and fenced. - OK
4. Parsons Adit and Test Pit area - 5 Adit openings and a test pit were sealed shut with polyurethane foam in 1997. Entire area is fenced. - OK
5. Miller (Crusher) Mine - A single, water filled and fenced pit. - OK
6. Section 21 Mine pit/caved ground area. Consists of 2 water filled, fenced pit areas. - There are 3 areas that are scheduled for contractor repairs in spring of 2012.
7. East Shaft - Shaft has been filled. In 1999 Marquette Fence installed fence around the shaft area. - Shaft is showing some slumping. Scheduled to be re-filled in spring of 2012.
8. West Shaft - Shaft has been filled and fenced. - OK
9. No. 1 Shaft - Shaft has been fenced. - OK
10. No. 2 Shaft - Shaft opening was sealed shut with polyurethane foam in 1997. In 1999 dirt was excavated over foam plug. In 2002 the shaft area was fenced and signed. - OK
11. Exploration Shaft - Shaft has been filled (remnant of old barbed wire fence evident.) In 2002 the shaft area was fenced and signed. - OK
12. Winthrop Mine - A single, water filled and fenced pit. - Two trees removed, fence repaired.
13. Winthrop No. 5 - A single, water filled and fenced pit. - OK
15. New England Mine - Consists of 4 fenced, pit/caved ground areas, two have water. - OK
16. New Burt Mine - A single long pit partially water filled and fenced. - OK
17. Saginaw Pit - Easterly 80 ft. of fenced pit is on RGGS property - NE-NE, 19-47-27. - OK
18. Test Pit & Adit - A large, fenced, test pit area with an adit in the westerly end of it. - OK
19. Goodrich Mine - A fenced, water filled pit area with an adit and a shaft area. Marquette Fence installed some new fence and repaired entire fence line in 1999. - OK

PALMER AREA
1. Star West Mine Group - Consists of 12 pit/caved ground and shaft areas, all fenced. The southerly 750 ft. of a pit located on the northerly part of the NW-SE, 29-47-26 was fenced in 1997. The northerly part of the pit was fenced by CCI in 2002. There are 5 separate areas scheduled for contractor repairs in spring of 2012.
2. Platt Mine - Consists of 2 - shafts and a pit/caved ground area, all fenced. All three are scheduled for contractor repairs in spring of 2012.
3. Un-identified Mine - Shallow trench type excavation. - OK
4. Old Richmond Mine - Consists of a fenced, large pit/caved ground area. Scheduled for contractor repairs in spring of 2012.
5. Old Richmond Adit - Consists of an Adit, pit/caved, fenced area. Scheduled for contractor repairs in spring of 2012.
6. Wicks Mine - Consists of two larger 10 ft. deep test pits and several smaller ones. - OK
8. Primrose Mine - Fenced pit and trench, some shallow test pits in area.
9. Moore Mine - A long narrow steep unfenced pit with a shaft on the east end. Shaft was fenced and signed in 1997. - OK