

INDEPENDENT TECHNICAL REPORT:  
NORTON LAKE NICKEL-COPPER-COBALT DEPOSIT

**NORTHWESTERN ONTARIO, CANADA**



**White Tiger Mining Corp.**  
2489 Bellevue Avenue  
West Vancouver, British Columbia, Canada V7V 1E1

May 1<sup>st</sup>, 2009

Prepared By:



**Caracle Creek International Consulting Inc.**  
25 Froot Road  
Sudbury, Ontario, Canada P3C 4Y9  
+1.705.671.1801

Scott Jobin-Bevans, Ph.D., P.Geo.  
Robert S. Middleton, M.Sc., P.Eng.  
Elisabeth Ronacher, Ph.D., P.Geo.  
Jenna McKenzie, H.B.Sc., P.Geo.



## TABLE OF CONTENTS

LIST OF FIGURES .....	3
LIST OF TABLES .....	4
LIST OF APPENDICES .....	5
<b>1.0 EXECUTIVE SUMMARY .....</b>	<b>6</b>
<b>2.0 INTRODUCTION AND TERMS OF REFERENCE .....</b>	<b>9</b>
2.1 INTRODUCTION .....	9
2.2 SCOPE OF WORK .....	9
2.3 BASIS OF THE REPORT .....	9
2.4 TERMINOLOGY AND UNIT CONVERSION .....	10
2.5 CCIC'S QUALIFICATIONS .....	13
<b>3.0 RELIANCE ON OTHER EXPERTS .....</b>	<b>14</b>
<b>4.0 PROPERTY DESCRIPTION AND LOCATION .....</b>	<b>15</b>
4.1 ESTABLISHING MINERAL RIGHTS IN ONTARIO .....	17
4.2 OWNERSHIP AND MINERAL RIGHTS .....	18
4.3 ENVIRONMENTAL CONSIDERATIONS .....	19
4.4 PERMITS .....	19
<b>5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY .....</b>	<b>19</b>
5.1 ACCESSIBILITY .....	19
5.2 CLIMATE .....	19
5.3 LOCAL RESOURCES AND INFRASTRUCTURE .....	20
5.4 PHYSIOGRAPHY .....	20
<b>6.0 PROPERTY HISTORY .....</b>	<b>20</b>
6.1 EXPLORATION HISTORY .....	20
6.1.1 <i>Union Minière Explorations (1970-1972)</i> .....	21
6.1.2 <i>Wasabi Resources Ltd. (1980-81)</i> .....	21
6.1.3 <i>Duration Mines Ltd. (1986-87)</i> .....	22
6.1.4 <i>Joutel Resources Ltd. (1989-95)</i> .....	23
6.1.5 <i>East West Resource Corporation (2001-2002)</i> .....	23
6.1.6 <i>East West Resource Corporation (2002/2003)</i> .....	26
6.1.7 <i>Cascadia International Resources Inc. (2004/2005)</i> .....	27
6.1.8 <i>J.R. Johnson, M.Sc. Thesis (2003-2005)</i> .....	31
6.2 MINERAL RESOURCE ESTIMATES – WASABI RESOURCES 1981 .....	31
<b>7.0 GEOLOGICAL SETTING .....</b>	<b>31</b>
7.1 REGIONAL GEOLOGY .....	31
7.2 LOCAL AND PROPERTY GEOLOGY .....	32
7.2.1 <i>Mafic-Ultramafic Intrusives</i> .....	35
7.2.2 <i>Structural Geology</i> .....	38
<b>8.0 DEPOSIT TYPES .....</b>	<b>38</b>
8.1 DEPOSIT MODEL .....	39
<b>9.0 MINERALIZATION .....</b>	<b>40</b>
9.1 MINERALIZATION STYLE AND CONTROL .....	40
9.2 MINERALOGY .....	41
9.3 MINERALIZING EVENTS .....	42
<b>10.0 EXPLORATION .....</b>	<b>42</b>



10.1 AIRBORNE GEOPHYSICAL SURVEYS.....	44
10.2 GROUND GEOPHYSICAL SURVEYS.....	73
<b>11.0 DRILLING.....</b>	<b>78</b>
<b>12.0 SAMPLING METHOD AND APPROACH .....</b>	<b>78</b>
12.1 DENSITY DETERMINATION .....	79
<b>13.0 SAMPLE PREPARATION, ANALYSES AND SECURITY .....</b>	<b>79</b>
13.1 SAMPLE PREPARATION AND ANALYSES.....	79
13.1.1 <i>Wasabi Resources Ltd. (1980-81)</i> .....	79
13.1.2 <i>East West Resource Corp. (2002)</i> .....	79
13.1.3 <i>Cascadia International Resource Inc. (2004-05)</i> .....	80
13.2 SAMPLE SECURITY.....	80
<b>14.0 DATA VERIFICATION .....</b>	<b>81</b>
14.1 SAMPLE AND DATA GAPS .....	81
14.2 ANALYTICAL PROCEDURE.....	82
14.3 SITE VISIT .....	84
14.3.1 <i>Drill Core Examination</i> .....	84
<b>15.0 ADJACENT PROPERTIES.....</b>	<b>85</b>
<b>16.0 MINERAL PROCESSING AND METALLURGICAL TESTING .....</b>	<b>86</b>
<b>17.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES .....</b>	<b>86</b>
17.1 DATABASE GENERATION .....	86
17.1.1 <i>Topographic Model</i> .....	86
17.2 WIREFRAME MODELLING.....	87
17.3 DENSITY DETERMINATION .....	89
17.4 ADJUSTMENTS TO SAMPLE DATABASE .....	90
17.4.1 <i>Sample Concentration Capping</i> .....	90
17.4.2 <i>Treatment of Sampling Gaps</i> .....	90
17.4.3 <i>Sample Composites</i> .....	91
17.5 VARIOGRAPHY .....	91
17.5.1 <i>Grade Classification</i> .....	92
17.6 BLOCK MODELLING .....	92
17.7 GRADE INTERPOLATION .....	93
17.7.1 <i>Block Model versus Sample Database Mean</i> .....	95
17.7.2 <i>Cross Validation</i> .....	96
17.8 RESPONSIBILITY FOR ESTIMATION .....	97
<b>18.0 OTHER RELEVANT DATA AND INFORMATION .....</b>	<b>97</b>
<b>19.0 INTERPRETATIONS AND CONCLUSIONS .....</b>	<b>97</b>
<b>20.0 RECOMMENDATIONS .....</b>	<b>101</b>
20.1 RECOMMENDED EXPLORATION PROGRAM.....	102
20.1.1 <i>Phase I</i> .....	102
20.1.2 <i>Phase II</i> .....	104
<b>21.0 REFERENCES .....</b>	<b>107</b>
<b>22.0 STATEMENT OF AUTHORSHIP.....</b>	<b>109</b>



## LIST OF FIGURES

FIGURE 2-1. LOCATION OF THE NORTON LAKE NICKEL-COPPER-COBALT PROPERTY, ONTARIO, CANADA. ...	11
FIGURE 2-2. LOCATION OF THE NORTON LAKE NICKEL-COPPER-COBALT PROPERTY, NORTHWESTERN ONTARIO, CANADA. ....	12
FIGURE 4-1. UNPATENTED MINING CLAIMS FOR THE NORTON LAKE PROPERTY, ONTARIO. THE NORTON LAKE NI-CU-CO DEPOSIT IS LOCATED IN CLAIM 1240871 (RED TRIANGLE). ....	17
FIGURE 6-1. COLLAR LOCATIONS AND SURFACE PROJECTIONS OF DIAMOND DRILL HOLES COMPLETED TO DATE ON THE NORTON LAKE NI-CU-CO DEPOSIT. ....	30
FIGURE 6-2. COLLAR LOCATIONS AND SURFACE PROJECTIONS OF DIAMOND DRILL HOLES COMPLETED TO DATE ON THE NORTON LAKE NI-CU-CO DEPOSIT. ....	30
FIGURE 7-1. GENERALIZED MAP OF THE SUPERIOR PROVINCE ILLUSTRATING THE VARIOUS GEOLOGICAL SUB-PROVINCES. THE UCHI SUBPROVINCE IS HIGHLIGHTED IN BLACK (FROM JOHNSON, 2005B). ....	33
FIGURE 7-2. GENERALIZED GEOLOGICAL MAP OF THE UCHI SUBPROVINCE ILLUSTRATING THE LOCATION OF THE NORTON LAKE NI-CU-CO DEPOSIT (RED FILLED CIRCLE) (MODIFIED AFTER JOHNSON, 2005B). ...	34
FIGURE 7-3. LOCAL GEOLOGY, GEOPHYSICALLY INFERRED STRUCTURES, AND SURFACE PROJECTION OF SULPHIDE MINERALIZATION, NORTON LAKE PROPERTY. ....	36
FIGURE 7-4. AIRBORNE MAGNETOMETER SURVEY SHOWING MAGNETIC RESPONSE FROM FOLDED IRON FORMATION AND STRUCTURAL DISCONTINUITIES, NORTON LAKE PROPERTY (LOWER RIGHT, BLACK TRIANGLES AND GREY TRIANGLE). ....	37
FIGURE 9-1. LONGITUDINAL SECTION IN PLANE OF SULPHIDES THROUGH THE NORTON LAKE NI-CU-CO DEPOSIT ALONG AN EAST-WEST SECTION, LOOKING NORTH (MODIFIED FROM EAST WEST WEBSITE). ...	41
FIGURE 10-1. REGIONAL GEOPHYSICAL SURVEYS OF THE NORTON LAKE PROPERTY, SHOWING 1970 MKV INPUT CONDUCTORS (UPPER IMAGE) AND REGIONAL AEROMAGNETIC MAP (GSC MAP No. 945). ....	43
FIGURE 10-2. NORTON LAKE AEROTEM SURVEY LOCATION MAP. THE NORTON LAKE DEPOSIT IS OUTLINED IN YELLOW. ....	45
FIGURE 10-3. BLOCKS 1 (WEST) AND 2 (EAST) OF THE NORTON LAKE SURVEY. THE NORTON LAKE DEPOSIT IS OUTLINED IN YELLOW. ....	45
FIGURE 10-4. SCHEMATIC OF TRANSMITTER AND RECEIVER WAVEFORMS (GARRIE ET AL, 2007). ....	46
FIGURE 10-5. AEROTEM RESPONSE TO A 'THIN' VERTICAL CONDUCTOR (GERRIE ET AL, 2007) ....	48
FIGURE 10-6. AEROTEM RESPONSE FOR A 'THICK' VERTICAL CONDUCTOR (GARRIE AND SMITH, 2007). ....	48
FIGURE 10-7. AEROTEM RESPONSE OVER A 'THIN' DIPPING CONDUCTOR (GARRIE AND SMITH, 2007). ....	49
FIGURE 10-8. TOTAL MAGNETIC INTENSITY OF BLOCK 1 OF THE NORTON LAKE AEROTEM SURVEY. THE DEPOSIT IS OUTLINED IN YELLOW. ....	50
FIGURE 10-9. FIRST VERTICAL DERIVATIVE OF BLOCK 1 OF THE NORTON LAKE AEROTEM SURVEY. THE DEPOSIT IS OUTLINED IN YELLOW. ....	51
FIGURE 10-10. SECOND OFFTIME Z CHANNEL OF BLOCK 1 OF THE NORTON LAKE AEROTEM SURVEY. THE DEPOSIT IS OUTLINED IN BLACK. ....	52
FIGURE 10-11. THE PROFILE WINDOWS FROM TOP TO BOTTOM ARE TMI-RED AND 1VD- GREEN, Z-ON RESPONSE, Z-OFF RESPONSE, X-ON RESPONSE, AND X-OFF RESPONSE. ....	53
FIGURE 10-12. TOTAL MAGNETIC INTENSITY OF BLOCK 2 OF THE NORTON LAKE AEROTEM SURVEY. ....	61
FIGURE 10-13. FIRST VERTICAL DERIVATIVE OF BLOCK 2 OF THE NORTON LAKE AEROTEM SURVEY. ....	62
FIGURE 10-14. SECOND OFFTIME Z CHANNEL OF BLOCK 2 OF THE NORTON LAKE AEROTEM SURVEY. ....	63
FIGURE 10-15. LOCATION MAP OF NORTON LAKE GRAVITY SURVEY. ....	74
FIGURE 10-16. BOUGUER ANOMALY GRAVITY MAP. NORTON LAKE DEPOSIT OUTLINED IN YELLOW. CONTOURS ARE IN MGAL. ....	75
FIGURE 10-17. CORRECTED BOUGUER MAP WITH FIRST TREND REMOVED. NORTON LAKE DEPOSIT OUTLINED IN YELLOW. CONTOURS ARE IN MGAL. ....	76
FIGURE 10-18. DIGITAL TERRAIN MAP. NORTON LAKE DEPOSIT OUTLINED IN YELLOW. ....	77
FIGURE 14-1. SCATTER PLOT OF ORIGINAL VERSUS QA/QC ASSAY RESULTS FOR NICKEL. ....	83
FIGURE 14-2. SCATTER PLOT OF ORIGINAL VERSUS QA/QC ASSAY RESULTS FOR COPPER. ....	83
FIGURE 17-1. TRUE PERSPECTIVE SOUTHEAST VIEW OF THE NORTON GRADE SHELL (RED) WITH DRILL HOLE TRACES. ....	88
FIGURE 17-2. TRUE PERSPECTIVE NORTHWEST VIEW OF THE NORTON GRADE SHELL (RED) WITH DRILL HOLE TRACES. ....	89



FIGURE 17-3. SOUTH-NORTH SCHEMATIC SECTION ILLUSTRATING THE U-4 SAMPLE GAP WITHIN THE GRADE SHELL. ....	91
FIGURE 17-4. TRUE PERSPECTIVE SOUTHEAST VIEW OF THE NORTON BLOCK MODEL (COLOURED BY RESOURCE CATEGORY). ....	93
FIGURE 17-5. GRADE-TONNAGE CURVE FOR Ni. ....	95
FIGURE 17-6. SCATTER PLOT OF ACTUAL-SAMPLE VERSUS FORECAST-SAMPLE NICKEL GRADES. ....	97
FIGURE 19-1. TRUE PERSPECTIVE OF THE MINERALIZED ZONE (NORTHEAST VIEW) ILLUSTRATING INTERPRETED DISPLACEMENT OF THE SOUTH ZONE (ORANGE) RELATIVE TO THE NORTON ZONE (RED) ALONG A 107° FAULT (BLUE). ....	99
FIGURE 19-2. TRUE PERSPECTIVE OF THE MINERALIZED ZONE (SOUTHEAST VIEW) ILLUSTRATING A HYPOTHETICAL OPEN CAST SCENARIO TO 200 METRES DEPTH WITH BLOCK MODEL. ....	101
FIGURE 20-1. TRUE PERSPECTIVE SOUTHEAST VIEW ILLUSTRATING MINIMUM RECOMMENDED DRILLING. ....	106
FIGURE 20-2. TRUE PERSPECTIVE NORTHWEST VIEW ILLUSTRATING POSSIBLE POSITION OF SOUTH ZONE (ORANGE). ....	106

## LIST OF TABLES

TABLE 4-1. UNPATENTED MINERAL CLAIMS OF THE NORTON LAKE PROPERTY. ....	15
TABLE 6-1. DIAMOND DRILLING SUMMARY, COMPLETED BY WASABI RESOURCES LTD. ....	21
TABLE 6-2. SELECTED DRILL CORE ASSAY RESULTS FROM WASABI RESOURCES LTD. (1981). ....	22
TABLE 6-3. SELECTED CONFIRMATION ASSAYS FOR “U SERIES” DRILL CORE, EAST WEST RESOURCE CORPORATION. ....	24
TABLE 6-4. PHASE 1 DIAMOND DRILLING SUMMARY, COMPLETED BY EAST WEST RESOURCE CORPORATION. ....	25
TABLE 6-5. SELECTED DRILL CORE ASSAY RESULTS FROM PHASE 1, EAST WEST RESOURCE CORPORATION. ....	25
TABLE 6-6. SUMMARY OF THE 2003 EXPLORATION DRILLING PROGRAM, EAST WEST RESOURCE CORP. ....	27
TABLE 6-7. PHASE 2 DIAMOND DRILLING SUMMARY, COMPLETED BY CASCADIA INTERNATIONAL RESOURCES INC. ....	27
TABLE 6-8. SELECTED DRILL CORE ASSAY RESULTS FROM PHASE 2, CASCADIA INTERNATIONAL RESOURCES INC. ....	27
TABLE 6-9. SUMMARY OF SURFACE CONDUCTORS FROM SURFACE GEOPHYSICAL SURVEY (CRONE, 2005)..	28
TABLE 6-10. PHASE 3 DIAMOND DRILLING SUMMARY, COMPLETED BY CASCADIA INTERNATIONAL RESOURCES INC. ....	29
TABLE 6-11. SELECTED DRILL CORE ASSAY RESULTS FROM PHASE 3, CASCADIA INTERNATIONAL RESOURCES INC. ....	29
TABLE 10-1. SPECIFICATIONS OF THE NORTON LAKE AEROTEM SURVEY ....	44
TABLE 10-2. CHANNEL TIME SUMMARY OF THE AEROTEM SYSTEM ....	46
TABLE 10-3. IGRF FOR THE NORTON LAKE AEROTEM SURVEY ....	47
TABLE 10-4. ANOMALIES SELECTED FROM BLOCK 1. ALL COORDINATES ARE IN NAD83 UTM ZONE 16N. ....	54
TABLE 10-5. ANOMALIES SELECTED FROM BLOCK 2. ....	64
TABLE 14-1. SUMMARY OF SELECTED DRILL CORE EXAMINED DURING THE VISIT OF THE CORE STORAGE FACILITY. ....	85
TABLE 17-1. SUMMARY OF DIAMOND DRILL HOLE DATA USED IN THE CURRENT MINERAL RESOURCE ESTIMATE. ....	86
TABLE 17-2 STRATIGRAPHY AND INFLUENCE OF SAMPLES WITHIN THE GRADE SHELL, DEVELOPED ON NICKEL GRADE. ....	87
TABLE 17-3. SAMPLE GAPS (>0.5 METRES) WITHIN THE NICKEL BASED GRADE SHELL. ....	88
TABLE 17-4. SPATIAL STATISTICS OF THE NORTON GRADE SHELL (NAD83 UTM Z16N). ....	88
TABLE 17-5. SUMMARY OF SPECIFIC GRAVITY DATA USED FOR THE CURRENT MINERAL RESOURCE ESTIMATE. ....	89
TABLE 17-6 SAMPLE CAPPING FOR THREE STATISTICAL OUTLIERS, DEVELOPED ON THE BASIS OF ANOMALOUS CONCENTRATIONS. ....	90
TABLE 17-7 SAMPLE GAP SUBSTITUTIONS USING ARTIFICIAL VALUES IN THE NORTON LAKE GRADE SHELL. ....	92
TABLE 17-8. GRADE CLASSIFICATION PARAMETERS FOR THE MINERAL RESOURCE ESTIMATE. ....	92
TABLE 17-9. BLOCK MODEL PARAMETERS FOR CURRENT MINERAL RESOURCE ESTIMATE. ....	93