

BC Geological Survey
Assessment Report
31133

GEOLOGICAL / GEOCHEMICAL REPORT
ON THE
ELDORADO GOLD PROJECT

LILLOOET MINING DIVISION

NTS: 0920.006 and 0920.007

Latitude 51° 2' 30" N Longitude 122° 49' 00" W

UTM NAD 83 5654500 mN 513000 mE

by:

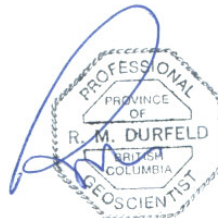


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Effective Date: October 12, 2009



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TABLE OF CONTENTS

Item 3: Summary	1
Item 4: Introduction	3
Item 5: Reliance on Other Experts.....	3
Item 6: Property Description and Location.....	3
Item 7: Accessibility, Climate, Local Resources, Infrastructure and Physiography	6
Item 8: History.....	7
Item 9: Geological Setting	9
9.1 Regional Geology	9
9.2 Property Geology.....	10
Item 10: Deposit Types.....	11
Item 11: Mineralization	11
Item 12: Exploration.....	12
Item 13: Drilling	13
Item 14: Sampling Method and Approach.....	13
14.1 Geochemical Sampling.....	13
Item 15: Sample Preparation, Analyses and Security	13
Item 16: Data Presentation and Verification.....	14
Item 17: Adjacent Properties	14
Item 18: Mineral Processing and Metallurgical Testing	15
Item 19: Mineral Resource and Mineral Reserve Estimates	15
Item 20: Other Relevant Data and Information	15
Item 21: Conclusions	15
21.1 Interpretation and Conclusions	15
21.2: Recommendations	17
Item 22: Cost Statement	19
Item 23: References	21
Item 24: Certificates	22
24.1 Certificate of Author.....	22
24.2: Consent of Author	23
Item 25: Additional Requirements for Technical Reports On Development Properties And Production Properties ..	23
APPENDICES	II
APPENDIX i 2008-09 COMPILED ROCK SILT AND SOIL DATA	II
APPENDIX ii 2008-09 ANALYTICAL RESULTS	III
APPENDIX iii ANALYTICAL PROCEDURES.....	IV

LIST OF ILLUSTRATIONS (ITEM 26)

Figure 1: Eldorado Project Location Map.....	2
Figure 2: Eldorado Claim Map	5
Attached Figures	
Figure 1: Eldorado Project Geology Plan	
Figure 2: Eldorado Project Gold (ppb) in Rock	
Figure 4(1): Eldorado Project Gold Values (ppb) in Rock	
Figure 4A: Eldorado Project Gold (ppb) in Silt	
Figure 4A(1): Eldorado Project Gold Values (ppb) in Silt	
Figure 4B: Eldorado Project Gold (ppb) in Soil	
Figure 4B(1): Eldorado Project Gold Values (ppb) in Soil	



Figure 5: Eldorado Project Arsenic (ppm) in Rock
Figure 5(1): Eldorado Project Arsenic Values (ppm) in Rock
Figure 5A3: Eldorado Project Arsenic (ppm) in Silt
Figure 5A(1): Eldorado Project Arsenic Values (ppm) in Silt
Figure 4: Eldorado Project Arsenic (ppm) in Soil
Figure 5B(1): Eldorado Project Arsenic Values (ppm) in Soil
Figure 5: Eldorado Project Mercury (ppb) in Rock
Figure 6(1): Eldorado Project Mercury Values (ppb) in Rock
Figure 6A: Eldorado Project Mercury (ppb) in Silt
Figure 6A(1): Eldorado Project Mercury Values (ppb) in Silt
Figure 7: Eldorado Project Lead (ppm) in Rock
Figure 7(1): Eldorado Project Lead Values (ppm) in Rock
Figure 7A: Eldorado Project Lead (ppm) in Silt
Figure 7A(1): Eldorado Project Lead Values (ppm) in Silt
Figure 7B: Eldorado Project Lead (ppm) in Soil
Figure 7B(1): Eldorado Project Lead Values (ppm) in Soil
Figure 8: Eldorado Project Antimony (ppm) in Rock
Figure 8(1): Eldorado Project Antimony Values (ppm) in Rock
Figure 8A: Eldorado Project Antimony (ppm) in Silt
Figure 8A(1): Eldorado Project Antimony Values (ppm) in Silt
Figure 8B: Eldorado Project Antimony (ppm) in Soil
Figure 8B(1): Eldorado Project Antimony Values (ppm) in Soil
Figure 9: Eldorado Project Zinc (ppm) in Rock
Figure 9(1): Eldorado Project Zinc Values (ppm) in Rock
Figure 9A: Eldorado Project Zinc (ppm) in Silt
Figure 9A(1): Eldorado Project Zinc Values (ppm) in Silt
Figure 9B: Eldorado Project Zinc (ppm) in Soil
Figure 9B(1): Eldorado Project Zinc Values (ppm) in Soil
Figure 11: Eldorado Project 2008 / 09 Rock Sample Locations
Figure 12: Eldorado Project 2008 / 09 Silt Sample Locations
Figure 13: Eldorado Project 2008 / 09 Soil Sample Locations



Item 3: Summary





Item 4: Introduction

The 'Eldorado Gold Project', located in the Lillooet Mining Division is a joint venture covering mineral tenures owned by Mel Stewart and Rudi Durfeld. This report documents geological mapping, prospecting and geochemical sampling (rock and silt) that was completed in the claim area during the period June 30th, 2008 to September 16th, 2009. The field work was completed during 5 separate site visits: June 30th to July 4th, 2008; September 1st to 2nd, 2008; July 7th to 12th, 2009; August 25th to 29th, 2009; and September 14th to 17th, 2009. While documenting the 2008 and 09 work and results this report includes previous results. Historic data from government surveys, government filed assessment reports and private company reports describing mineral exploration and development in the Eldorado property area has also been included. All data has been compiled in access and excel data bases and imported to the Manifold GIS program for presentation. The Eldorado Project was acquired for its potential of hosting an 'Orogenic Gold Deposit'.

RM (Rudi) Durfeld, B.Sc., P.Geo., who supervised the 2008 / 2009 field program is the author of this report.

Item 5: Reliance on Other Experts

There were no other experts involved in preparing this report.

Item 6: Property Description and Location

The 3475 hectare Eldorado Gold Project is located in the Lillooet Mining Division, British Columbia, 17 kilometres north of the community of Gold Bridge and 11 kilometres northwest of Tyaughton Lake (Figure 1). More precisely, it is located at 51° 02' 30" north latitude and 122° 49' 00" west longitude and UTM NAD 83, 5654500 mN, 513000 mE. (National Topographic System Map 92O.006 and 007).

The Eldorado property, comprised of 11 mineral tenures, registered to Mel Stewart (FMC 125752) and Rudi Durfeld (FMC 107306). The following table lists the detailed tenure



information (tenure number, type, claim name, expiry date and area) and the relative claim locations are shown on the Claim Map (Figure 2)

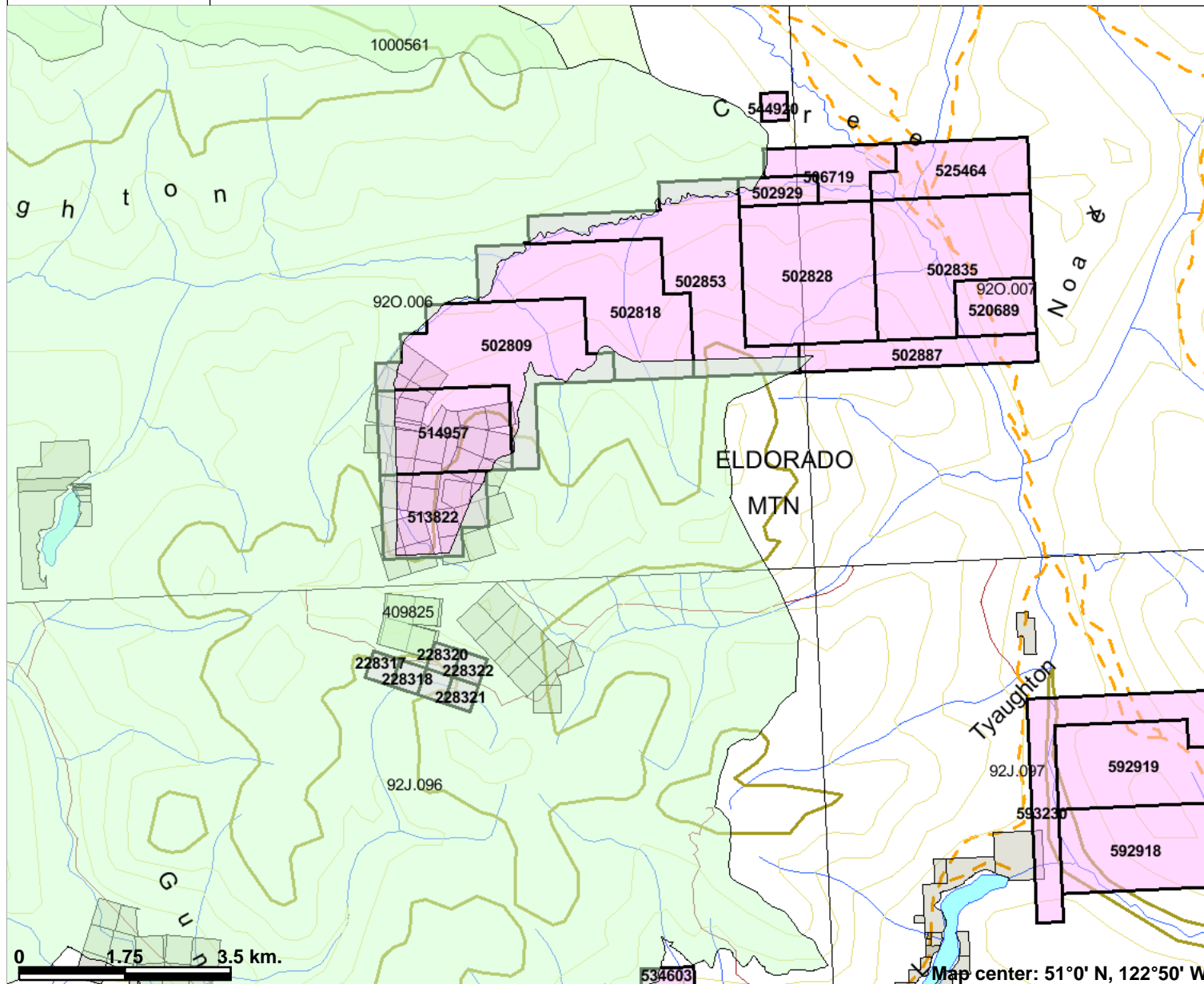
Table 1: Tenure Information

Tenure Number	Owner	Tenure Type	Map Number	Good To Date	Status	Area (ha)
502853	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	508.0
502887	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	182.9
502929	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	60.9
506719	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	142.2
513822	125752 (100%)	Mineral	092O	2010/jan/01	GOOD	223.7
520689	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	121.9
525464	125752 (100%)	Mineral	092O	2010/aug/31	GOOD	223.5
502809	107306 (100%)	Mineral	092O	2010/aug/31	GOOD	508.2
502818	107306 (100%)	Mineral	092O	2010/aug/31	GOOD	508.1
502828	107306 (100%)	Mineral	092O	2010/aug/31	GOOD	508.0
502835	107306 (100%)	Mineral	092O	2010/aug/31	GOOD	487.7
				Total Area		3475.0

In British Columbia acquisition of Crown mineral rights is governed by the Mineral Tenure Act and administered by the Mineral Titles Branch. Exploration and development required to maintain a mineral claim in British Columbia for 1 year is \$4/hectare for the first, second and third anniversary years and \$8/hectare for each subsequent year and applicable recording fees.



ELDORADO GOLD PROJECT



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:250K)
- Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown

0 1.75 3.5 km.

Map center: 51°0' N, 122°50' W



Scale: 1:100,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Item 7: Accessibility, Climate, Local Resources, Infrastructure and Physiography

Access to the Eldorado Project is northwesterly from Lillooet, via the Goldbridge Highway 40 to the Marshall Main (46 km), up Marshall Main a further 35 km, from where local logging roads provide westerly access through the property to the Nea Basin. Late in 2005 Ainsworth Lumber extended the Bonanza Main logging road 5 kilometres west, terminating in the Nea Basin. With less than 200 metres of trail this road was linked to the historic mining trail / road network. Helicopter access is available from Tyaughton Lake or Lillooet.

The project lies in the Chilcotin Ranges of the south-central British Columbia interior, representing the eastern portion of the Coast Mountain Physiographic region. The area has a mean annual precipitation is 150 to 250 cm per year. With an average of 60 frost free days a year snow can be expected anytime after September 15th. Ground surveys are most effective from Mid-May to Mid-October, whereas drilling can be conducted year round with the extra expense of snow removal.

The Project is linked by allweather roads to the communities of Goldbridge and Lillooet, where infrastructure would easily support and welcome any development in the Eldorado area. A reliable supply of water is readily available from the Tyaughton River system. There is adequate area on the property for mine-mill development and waste or tailings disposal.

This region is characterized by narrow immature glacial valleys and interconnected basins with elevations on the property ranging from 1100 metres (3600 feet) to 2400 metres (7900 feet) above sea level. The western portion of the property covers the upper reaches of the north flowing Nea Basin.

The lower reaches of the property cover pine and fir forests that give way to a transition zone from alpine coniferous (pine-spruce-fir) to low lying alders and alpine grasses and flowers which on the steeper side hills give way to rusty outcrops and scree slopes.



Item 8: History

From west to east the property covers five past producers as the Robson, Silver Quick, Tungsten King, Tungsten Queen and Manitou documenting a long history of prospecting, exploration and development.

Robson Deposit

Latitude 51° 01' 23" N Longitude 122° 53' 20" W

UTM 10 (NAD 83) Northing 5652395 Easting 507793

Early exploration identified the Robson deposit as seams and veins of predominantly quartz and auriferous arsenopyrite along a southwest trending and steeply dipping shear zone. Other metallic minerals identified were pyrite, jamesonite, sphalerite, chalcopyrite, stibnite, boulangerite, pyrrhotite and pyrargyrite. Silica, carbonate and chlorite alteration are associated with the mine.

The Robson deposit was mined in 1939 and 1940 producing a total of 34 tonnes of ore which yielded 18 kilograms of silver, 2.2 kilograms of gold, 193 kilograms of copper and 2640 kilograms of lead. In 1986, a 0.79 metre diamond-drill interval of the vein structure assayed 468.95 grams per tonne silver and 45.24 grams per tonne gold.

Silver Quick Deposit

Latitude 51° 02' 26" N Longitude 122° 49' 05" W

UTM 10 (NAD 83) Northing 5654351 Easting 512756

The Silverquick mercury deposit, is hosted in extremely fractured and sheared chert pebble conglomerate and interbedded sandstone-shale and chert lithic quartz arenite of the Upper Cretaceous Silverquick Formation. Cinnabar is present as disseminated grains, streaks and small lenses within the brecciated conglomerate and accompanied by quartz, calcite, limonite and clay.

The mine, produced most of its ore in the early to mid 1960's, yielded about 3180 kilograms of mercury. About 34 kilograms of mercury were produced in 1955.



Tungsten King, Cinnabar King, Lorntzsen

Latitude 5 f 02' 44" N Longitude 122 45' 32" W

UTM 10 (NAD 83) Northing 5654919 Easting 516902

The Tungsten King deposit is hosted within quartz-carbonate-mariposite rock, or listwanite and dolomite which is intensely brecciated, recrystallized and sheared. Feldspar porphyry dykes intrude listwanite, although not immediately adjacent to the significant metal concentrations. Quartz veins with scheelite and stibnite were first discovered within a two-metre wide fracture zone in brecciated recrystallized and sheared dolomite. Stibnite veins and disseminations also occur within listwanite. Cinnabar (for which the area was first prospected) occurs as films along shear planes as well as disseminations within foliated greenstone and listwanite, peripheral to the main scheelite-stibnite showings. In 1942 and 1952 about 34 tonnes of ore were mined grading about 5% tungsten trioxide (WO₃).

Tungsten Queen, Phillips' Tungsten, Phillips' Cinnabar

Latitude 5 f 02' 10" N Longitude 122 45' 17" W

UTM 10 (NAD 83) Northing 5653869 Easting 517198

The Tungsten Queen deposit occurs near the south end of a large fault-bound body of quartzcarbonate altered serpentinite (quartz-carbonate-mariposite rock, or listwanite) assigned to the Shulaps Ultramafic Complex. All these rocks are cut by irregular bodies and dykes of (Tertiary ?) feldspar porphyry. The Tungsten Queen deposit consists of essentially eight scheelite-bearing veins of variable thickness and continuity. Almost all of the veins strike northeast with most terminated by faults and adjacent tectonically emplaced Bridge River rocks. The principal vein, number 6, which yielded most of the high grade ore, was up to 18 centimetres thick and continuous for 21 metres. Other scheelite-bearing veins are much smaller. The veins consist of massive, almost pure white scheelite, with stibnite, quartz and carbonate. It is reported that between 1940 and 1953, 7,896 kilograms of tungsten trioxide Wo₃ were recovered from 55 tonnes of ore; 41 tonnes had been mined by 1943 with the remainder being mined in 1952 and 1953. Virtually all scheelite-bearing material has been mined out.



Manitou, Empire, Rose Group

Latitude 51° 03' 36" N Longitude 122° 46' 10" W

UTM 10 (NAD 83) Northing 5656522 Easting 516157

The Manitou mercury deposit, 800 metres northeast of the confluence of Relay and Tyaughton creeks, is hosted by a foliated greenstone and along contacts between greenstone and ribboned chert of the Mississippian to Jurassic Bridge River Complex (Group). The rocks are extremely faulted and principal shear zones trend north and northwest. Mercury occurs as cinnabar, chiefly with foliated green and purple volcanic rocks (greenstone) along foliation and shear places.

Recorded production, from 1938 to 1939, is 141.5 tonnes of ore which yielded 542.5 kilograms of mercury (National Mineral Inventory 09202 Hg1).

There was not a lot of exploration conducted in the area after the closure of the Silver Quick Mine until the increase in gold price rekindled interest in the late 70's. Much of the property area was explored until mid 1980's. The last drilling was on the Robson in 1986. Durfeld and Stewart acquired their tenure in the area since 2003 by staking. This report documents ongoing exploration rock, silt and soil sampling and geological mapping and compiling and verifying results of historic surveys while identifying new targets for ongoing exploration.

Item 9: Geological Setting

9.1 Regional Geology

The Eldorado Project area is described by P. Schiarizza, P. Geo. et al of the Geological Survey Branch of the Ministry of Energy and Mines, Bulletin 100, 'Geology and Mineral Occurrences of the Taseko-Bridge River Area (February 1997).

The project lies in the Coast geomorphological belt, characterized by rugged mountains that are underlain by Late Jurassic to Early Tertiary granitic rocks of the Coast Plutonic Complex. More specifically the project is in the Southeastern portion of the Coast Belt, containing a smaller percentage of granitic rocks that are Mid-Cretaceous to Early Tertiary in Age. The supracrustal rocks include rocks of the Bridge River, Cadwallader and Methow terranes, that originated in



ocean basins, volcanic arc and clastic basin environments. These Late Paleozoic to Cretaceous Age units are juxtaposed across a complex system of contractional, strike-slip and extensional faults of mainly Cretaceous and Tertiary Age.

9.2 Property Geology

The attached 'Eldorado Project Geology Plan' (figure 3) was originally downloaded from the BC Ministry of Energy and Mines website. Contacts, lithologies and other geological features were modified to reflect more detailed mapping.

The imbricated chert, clastics, limestone, greenstone and serpentinite, in the eastern project area, belong to the Mississippian to Mid Jurassic Age Bridge River Complex (MmJBgs). The central project area documents sedimentary basinal deposition from Upper Triassic to Cretaceous time. The siltstones and shales of the Hurley Formation (uTrCHs) document Upper Triassic clastic deposition in the Cadwallader Terrane. The Upper Triassic Tyaughton Group (uTrTy) to the northwest of the Hurley represents a nonmarine to shallow marine facies equivalent of the Hurley Formation. The Lower Cretaceous Age sandstones, siltstones and conglomerates of Taylor Group Dash (IKTD) and Lizard (IKTL) Formations form the west and east limbs of a core nonmarine conglomerate and finer clastics of the Cretaceous Age Silverquick Formation (KSq). The Silverquick formation, the youngest unit underlies the central property area.

In the southwest project area, the horseshoe shaped 4 kilometre by 2 kilometre, biotite hornblende quartz diorite and granodiorite Eldorado stock (LKTgd) occupies the upper Nea basin. Immediately north of the project a 2 kilometre north-south elongate Eocene Age feldspar porphyry (Efp) occurs. The property scale mapping has shown a broader distribution of intrusive rocks. In the central property area outcrops granodiorite and hornblende have been mapped as Lower Cretaceous Eldorado stock equivalent. Numerous feldspar, hornblende and / or quartz porphyries have been identified at Silverquick, Tungsten King and Tungsten Queen and the central property area. Texturally these felsic rocks would be more akin to the Eocene Age feldspar porphyry and have been included in the (Efp). The spatial distribution of these felsic rocks within and close to Cretaceous Age Eldorado stock suggests that these felsic rocks may be



a phase of this Lower Cretaceous intrusive complex. Age dating would assist in documenting this intrusive history.

a) Structure

Complex Cretaceous to Tertiary Age north to northwesterly trending faults and thrusts juxtapose the clastic rocks. These structures and the subsidiaries are often healed with quartz carbonate sulphide veins.

b) Alteration

A one kilometre zone of hornfels (biotite, pyrite) envelopes the Eldorado stock contact, developing a strong gossan in the Nea Basin. A narrower zone of clay alteration is noted as bleaching close to the stock contact. Clay alteration was also noted in the area of the Silverquick, Tungsten King and Tungsten Queen.

Quartz carbonate alteration as matrix flooding, vein breccia and veining occurs throughout the Nea Basin and at the Silverquick, Tungsten Queen and Tungsten King prospects.

The Robson and Drabble vein structures occur in strong hornfels and sheared sediments immediately north of the intrusive contact.

Item 10: Deposit Types

The style of alteration, mineral zoning, silicification - quartz veining and gold in quartz veins fits a telescoping mesothermal to epithermal orogenic gold system for the Eldorado project area. The presence of mercury and base metals with gold in the Nea / Robson area would fit the central portion of the model. Whereas the high mercury and general lack of base metals in the Silverquick area would suggest the top of the model.

Item 11: Mineralization

Sulphide mineralization noted in order of abundance occurs as pyrite, arsenopyrite, cinibar, stibnite, galena, chalcopyrite and sphalerite. Pyrite occurs as disseminations and veins, while the



other sulphides are generally restricted to quartz veins and fractures. More disseminated pyrite and chalcopyrite have been noted in altered granodiorite of the Eldorado stock in the southern Nea Basin area.

Historic work in the southwestern property area had shown strongly anomalous soils >3000 ppb gold. This extensive gold in soil anomaly was confirmed by the 2009 sampling as being sourced from gold mineralized granodiorite supporting an intrusion hosted gold mineralized model.

The Robson target, occurring on claim 514957 not included in the Eldorado Project, occurs as mineralized quartz sulphide veins and shears in altered sediments immediately north of the Eldorado intrusive contact.

Silverquick

As expected the sampling in the open cuts and adits assayed high mercury up to 1.92% mercury, with anomalous mercury over a larger area with weakly anomalous gold (40 to 60 ppb gold). Below the adits is an area of altered feldspar porphyry float returned 115 ppb gold and 1440 ppm arsenic. The 2006 prospecting and sampling showed additional conglomerate to the south with disseminated cinnabar that was not analyzed for mercury.

Tungsten King and Tungsten Queen

Limited rock sampling continues to identify elevated gold with anomalous arsenic and antimony and strongly anomalous mercury (up to 11,300 ppb Hg) related to intrusive plugs and sills into mafic rocks.

Item 12: Exploration

The objective of the 2008-09 program was to expand the geological mapping and prospecting, and geochemical sampling (rock, silt and soil) to refine the exploration targets in the property area. The 2008 work focussed on infill silt sampling. This work identified several anomalies that were evaluated during the 2009 field program. To this end a series of traverses were designed to collect a combination of silt and rock samples in conjunction with prospecting and geological mapping. This work has continued to focus the exploration as four general areas from



west to east as the Nea South, Bruce Creek , Silverquick and Tungsten King / Queen. The results of this work are documented in this report.

Item 13: Drilling

There is no recently documented drilling in the project area. Three Xray diamond drill holes completed on the Robson vein in 1986 are covered by claim 514957 which is not included in the Eldorado Project.

Item 14: Sampling Method and Approach

14.1 Geochemical Sampling

25 rock and 15 silt samples were collected in 2008 followed by 52 rock, 23 silt and 30 soils in 2009.

All samples were located using a GPS and the coordinates recorded in UTM NAD 83 and added to the sample description. Rock samples were collected as chips of both float and outcrop. The location and rock type were summarized and plotted on the geology map which was updated to reflect the observed lithologies. Stream sediments were collected as the silt fraction in variable sized streams. Where possible soil samples were collected as well developed rusty b-horizon soils. It was also critical to sample below the recent ash layer which at times was up to .5 metres thick. Soil in the alpine were poorly developed.

Sample locations and descriptions were merged with the geochemical results Appendix i.

Item 15: Sample Preparation, Analyses and Security

Silt and soil samples were placed in unique numbered Kraft bags. Rock samples were placed in plastic bags with unique assay tags. After samples were organized a sample shipment listing was completed and the samples were placed in a bags or boxes and shipped via public freight to Assayers Canada in Vancouver for analysis.

Assayers Canada confirmed receipt of shipment in Vancouver and analyzed the samples for gold and multi element ICP. The analytical procedures employed at Assayers are given as Appendix



iii.

Assayers provided the 2008 – 2009 results in hard copy and as an XL files that are included as Appendix ii.

No extra security was provided with the shipping of the samples.

Item 16: Data Presentation and Verification

Sample locations (UTM Nad 83) and descriptions were merged with the geochemical results for rock, silt and soil, Appendix I. This data was imported to the Manifold GIS program which generated the individual sample location plots for rock, soil and silt samples, figures 11, 12 and 13, collected during the 2008 – 2009 program. These plots were used to verify the sample locations. The 2008 – 2009 data was added to the previous data base and dot plots generated for gold, arsenic, mercury, lead, antimony and zinc, Figures 4, 4A,4B, 5, 5A, 5B, 6, 6A, 6B, 7, 7A, 7B, 8, 8A, 8B, 9, 9A and 9B. The elemental plots for the 2008 – 2009 data for gold, arsenic, mercury, lead, antimony and zinc, Figures 4 (1), 4A (1), 4B (1), 5 (1), 5A (1), 5B (1), 6 (1), 6A (1), 6B (1), 7 (1), 7A (1), 7B (1), 8 (1), 8A (1), 8B (1), 9 (1), 9A (1) and 9B (1). The plots of the sample locations were verified with the field plots. The plotted values for the elements were confirmed with the laboratory results.

Item 17: Adjacent Properties

The Bralorne-Bridge River mineral district, 25 km south of the project, hosts a large range of epigenetic mineral deposit types. The region is dominated by the Bralorne-Pioneer orogenic vein system that generated more than 4.1 million ounces of gold from high-grade ores (0.58 opt) between 1897 and 1971. Exploration in the Bralorne-Bridge River district is ongoing.



Item 18: Mineral Processing and Metallurgical Testing

Mineral processing has not been conducted on the property.

Item 19: Mineral Resource and Mineral Reserve Estimates

A mineral resource has not been defined on the Eldorado property.

Item 20: Other Relevant Data and Information

No other relevant data and information is known to the authors that would influence this report.

Item 21: Conclusions

21.1 Interpretation and Conclusions

The 3475 hectare Eldorado Gold Project, acquired as an orogenic gold target, is located in south central British Columbia. The project lies 25 kilometres north of the Bralorne-Bridge River mineral district which produced >4 million ounces of gold.

The property encompasses a section of Upper Triassic to Cretaceous accreted clastic to volcanoclastic rock. Complex Cretaceous to Tertiary Age north to northwesterly trending faults and thrusts juxtapose the clastic rocks. The Cretaceous Age 4 kilometre by 2 kilometre Eldorado stock intrudes the sediments in the western property area. The finer feldspar, hornblende and/or quartz porphyries noted in the Nea, Bruce Creek, Silverquick and Tungsten King and Queen areas are mapped as Tertiary Age. The 2008- 2009 mapping identified granodiorite, hornblende and felsic rocks in the central (Bruce Creek) property area. The spatial distribution of these felsic rocks within and close to Cretaceous Age Eldorado stock suggests that these felsic rocks may be a phase of this Lower Cretaceous intrusive complex. Age dating would assist in documenting this intrusive history.

The alteration / mineralization are structure / intrusion related.



The 2008 – 2009 program while expanding the sampling and mapping identified additional areas of intrusive activity / alteration and / or anomalous mineralization. The ongoing sampling focused in four areas Nea South, Bruce Creek , Silverquick and Tungsten King / Queen. When included with the previous work it expands our understanding.

NEA SOUTH

The recent mapping in the Nea South shows Lower Cretaceous granodiorite and Eocene feldspar porphyries intruding and altering Upper Triassic sediments developing a broad gossanous alteration. This area is broadly anomalous (rock, silt and soil) in gold, arsenic, mercury, lead and antimony. The southern part of this anomaly is sourced by sulphide mineralized (pyrite-chalcopyrite) altered granodiorite, suggesting potential for a Fort Knox intrusion related gold target.

BRUCE CREEK

2008 silt sampling showed this drainage to be anomalous in arsenic with isolated gold, mercury, lead, antimony and zinc. 2009 follow-up sampling and mapping shows the anomaly being sourced in an area of granodiorite and felsic intrusions. More detailed mapping and sampling will define the geological relationships and economic potential in this area.

SILVERQUICK

The former mercury mine area is outlined by anomalous strong mercury, weak gold, weak arsenic, weak lead and weak zinc proximal to Eocene Age felsic intrusions.

TUNGSTEN KING / QUEEN

The Tungsten King / Queen area is mapped as Mid Jurassic greenstones that are locally intruded Eocene Age felsic porphyries. Historically this area has been mined and / or explored for tungsten and mercury. In addition to mercury and tungsten the area is anomalous in arsenic and antimony.



The Eldorado Project area shows anomalous distributions of gold, arsenic, antimony, mercury, lead and zinc. Ongoing exploration modelling should consider a telescoping orogenic gold model. The Nea Basin in the west would be in the gold zone whereas the Silverquick and Tungsten King / Queen would be the higher level equivalents. This hypothesis is supported when looking at the younger Cretaceous Age Silverquick formation being down dropped relative to the Upper Triassic Hurley formation to the west.

21.2: Recommendations

Ongoing exploration on the Eldorado Project should:

- 1) Cover the whole property with reconnaissance scale geochemical sampling (silt, soil and rock), prospecting and geological mapping.
 - a) Define areas with missing coverage.
 - b) Compile all historic data
 - c) Results of compilation will define areas for more detailed follow-up.
- 2) Follow-up work will incorporate more detailed geological mapping and prospecting in conjunction with geochemical sampling (rock, silt and soil)
 - a) Grid soil sampling should be undertaken in covered areas
 - b) Compilation of the follow-up results will define areas of trenching and/or diamond drilling.

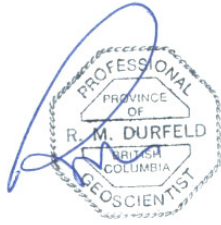


Item 22: Cost Statement



ELDORADO GOLD PROJECT 2008 to 2009					
June 30 to July 04, 2008					
Regional Silt Sampling, Prospecting and Geological Mapping					
Travel / Room / Board					
	3 4X4 Pickup	2780	km	@ .80/km	\$2,224.00
	3 Quad	9	day	@ \$70/day	\$630.00
	Room and Board	25	manday	@ \$85/day	\$2,125.00
Wages					
Geologist	RM Durfeld, P.Geo	5	day	@ \$700/day	\$3,500.00
Prospector	JM Stewart	5	day	@ \$300/day	\$1,500.00
	D Stewart	5	day	@ \$250/day	\$1,250.00
	Guido Durfeld	5	day	@ \$275/day	\$1,375.00
	Thomas Tiley	5	day	@ \$200/day	\$1,000.00
September 9 to September 10, 2008					
Follow-up Mapping Nea Basin					
	4X4 Pickup	950	km	@ .80/km	\$760.00
Wages					
Geologist	RM Durfeld, P.Geo	2	day	@ \$700/day	\$1,400.00
July 7 to July 12, 2009					
Regional Silt Sampling and Prospecting					
Travel / Room / Board					
	2 4X4 Pickup	1920	km	@ .80/km	\$1,536.00
	2 Quad	8	day	@ \$70/day	\$560.00
	Room and Board	12	manday	@ \$85/day	\$1,020.00
Wages					
Prospector	JM Stewart	6	day	@ \$300/day	\$1,800.00
	D Stewart	6	day	@ \$250/day	\$1,500.00
August 25 to August 29, 2009					
Regional Silt Sampling, Soil Sampling, Prospecting and Geological Mapping					
Travel / Room / Board					
	3 4X4 Pickup	2780	km	@ .80/km	\$2,224.00
	3 Quad	12	day	@ \$70/day	\$840.00
	Room and Board	15	manday	@ \$85/day	\$1,275.00
Wages					
Geologist	RM Durfeld, P.Geo	5	day	@ \$700/day	\$3,500.00
Prospector	JM Stewart	5	day	@ \$300/day	\$1,500.00
	D Stewart	5	day	@ \$250/day	\$1,250.00
September 14 to September 16, 2009					
Geological Mapping					
Travel / Room / Board					
	1 4X4 Pickup	880	km	@ .80/km	\$704.00
	Room and Board	3	manday	@ \$85/day	\$255.00
Wages					
Geologist	RM Durfeld, P.Geo	3	day	@ \$700/day	\$2,100.00
Analytical					
	2008 Sampling				
	Rock Samples	25	rock	@ \$ 28.25	\$706.25
	Silt Samples	15	silt	@ \$ 23.50	\$352.50
	2009 Sampling				
	Rock Samples	52	rock	@ \$ 28.25	\$1,469.00
	Silt Samples	23	silt	@ \$ 23.50	\$540.50
	Soil Samples	30	soil	@ \$ 23.50	\$705.00
Reporting					
	Drafting and Plotting				\$820.00
	Report				\$3,000.00
TOTAL 2008 and 2009 PROJECT COST					\$43,421.25





Item 23: References



Item 24: Certificates

24.1 Certificate of Author

I, Rudolf M. Durfeld, P.Geo. do hereby certify that:

1. I am currently employed as a consulting geologist by Durfeld Geological Management Ltd. with offices at 2029 South Lakeside Drive, Williams Lake, BC.
2. I am a graduate of the University of British Columbia, B.Sc. Geology 1972, and have practised my profession with various mining and/or exploration companies and as an independent geological consultant since graduation.
3. I am a member of the Canadian Institute of Mining and Metallurgy. That I am registered as a Professional Geoscientist by the Association of Engineers and Geoscientists of B.C. (No. 18241).
4. That this report is based on:
 - a. my supervision, observations and participation in the 2008 and 2009 Bonanza Gold Project.
 - b. compilation of the 2008 and 2009 data with previous data.
 - c. my personal knowledge of the property area and a review of available government maps and assessment reports.

Dated at Williams Lake, British Columbia this 12th day of October 2009.



R.M. Durfeld, B.Sc., P.Geo.



24.2: Consent of Author

Item 25: Additional Requirements for Technical Reports On Development Properties And Production Properties



APPENDICES

APPENDIX i 2008-09 COMPILED ROCK SILT AND SOIL DATA



508442	5651245	2365	9V0882RG	345744				341		1	0.05	822	10	<0.5	<5	>15.00	10	1	22	<1	3.34	<1	0.01	<10	8.55	5541	<2	0.02	<1	58	6	0.44	18	<1		304		<5	<0.01	<10	42	3	<10		24	2	Rock in last trench on ridge SW of cairn--
508441	5651245	2365	9V0882RG	345745				406		1.1	0.03	945	11	<0.5	<5	>15.00	12	1	10	<1	2.89	<1	0.01	<10	9.08	5966	<2	0.01	<1	53	4	0.48	11	<1		339		<5	<0.01	<10	45	1	<10		26	1	Rock in last trench on ridge SW of cairn--
508175	5651216	2250	9V0882RG	345746				75		<0.2	0.15	223	128	<0.5	<5	2.64	3	22	149	42	3.54	<1	0.06	<10	1.16	545	2	0.01	19	83	11	1.98	19	1		37		<5	<0.01	<10	<10	10	<10		22	2	Rock Float on cat rd on sidehill below cairn
507824	5652247	1838	9V0882RG	345747				8		<0.2	2.59	54	105	<0.5	<5	0.46	1	11	64	<1	5.09	<1	0.27	<10	0.75	507	<2	0.04	19	170	<2	0.01	<5	5		7		<5	0.01	<10	11	53	<10		74	2	Bedrock in Hughes ck
507842	5652219	1854	9V0882RG	345748				1100		0.2	0.24	6771	41	<0.5	<5	1.89	81	7	110	7	1.81	<1	0.08	<10	0.84	1263	<2	0.01	11	125	9	0.79	22	2		82		<5	<0.01	<10	<10	12	<10		26	1	Float in Hughes ck--Dark
507839	5652219	1855	9V0882RG	345749				16		<0.2	0.69	44	20	<0.5	<5	4.7	1	13	52	32	3.99	1	0.04	<10	2.26	666	<2	0.02	16	794	8	0.23	<5	9		142		<5	<0.01	<10	<10	90	<10		50	2	Float in Hughes ck--Cu and ???
507847	5652195	1860	9V0882RG	345750				8		<0.2	3.21	63	186	1.5	<5	1.9	1	27	86	79	5.76	<1	0.74	20	0.9	597	<2	0.09	23	8909	4	1.36	<5	23		28		<5	0.26	13	<10	111	<10		88	2	Bedrock in Hughes ck--Black ??
507884	5652140	1891	9V0882RG	345801				16		<0.2	0.89	67	42	<0.5	<5	3	1	19	51	152	3.96	1	0.07	<10	1.21	566	<2	0.01	19	927	14	0.22	11	10		58		<5	<0.01	<10	<10	89	<10		62	3	Float in Hughes ck--Blue ??
507946	5652303	1876	9V0882RG	345802				>10000	130.2	>200.0	0.18	>10000	17	<0.5	22	0.04	1602	1	22	6756	11.12	2	0.07	<10	0.02	43	<2	0.01	1	484	>10000	3.78	>10000	1		<0.1	<5	<0.01	<10	24	2	<10		668	4	Rock--8 m south of Robson Vein	
507940	5652326	1875	9V0882RG	345803				343		3	3.96	474	130	0.8	<5	2.1	7	15	75	114	3.39	1	0.31	<10	0.48	275	4	0.54	13	926	254	1.07	248	11		75		<5	0.11	<10	<10	133	<10		123	1	Pieces of drill core besid DDH
517017	5653070	1282	9V0882RG	345806				150		13.5	0.26	291	19	<0.5	<5	6.54	13	199	543	78	1.52	114	0.16	<10	0.17	225	<2	0.07	4892	148	32	>5.00	>10000	<1		735		<5	<0.01	<10	<10	5	133		43	1	
517018	5653071	1282	9V0882RG	345807				37		<0.2	0.02	43	<10	<0.5	<5	10.4	1	7	206	<1	2.25	4	0.01	<10	5.71	412	<2	0.01	80	49	21	0.3	915	2		851		<5	<0.01	<10	<10	9	22		7	1	Rock in new rockfall at TQ--Green & white

APPENDIX ii 2008-09 ANALYTICAL RESULTS



Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 8V2424RJ

Date : Jul-17-08

Durfeld Geological Management

Attention: Rudi Durfeld

Project: Eldorado

Sample type:

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345721	<0.2	0.53	<5	77	<0.5	<5	5.20	1	19	113	38	4.35	1	0.01	12	1.49	895	<2	0.06	96	679	7	0.10	5	9	166	6	<0.01	<10	13	77	<10	55	5
345722	<0.2	1.36	19	354	<0.5	<5	0.37	1	12	83	29	3.65	<1	0.48	<10	0.68	669	<2	0.10	18	971	4	0.02	5	7	29	5	0.16	<10	10	98	<10	88	3
345684	<0.2	0.07	400	25	<0.5	<5	12.55	<1	19	265	4	2.96	14	0.02	<10	10.42	568	<2	0.01	480	40	<2	<0.01	201	5	2014	<5	<0.01	<10	23	27	<10	3	2
345685	<0.2	0.06	245	26	<0.5	<5	>15.00	1	10	428	5	3.54	4	0.02	<10	11.05	698	<2	0.02	331	38	<2	<0.01	192	5	1431	<5	<0.01	<10	26	33	16	6	2
345686	0.4	0.03	13	26	<0.5	<5	1.42	1	37	210	2	2.73	2	0.01	<10	11.29	543	<2	0.01	523	55	<2	<0.01	90	2	270	<5	<0.01	<10	12	6	<10	4	1
345687	<0.2	0.07	192	41	<0.5	<5	>15.00	1	62	439	7	4.88	16	0.03	<10	13.20	1169	<2	0.01	1190	69	<2	<0.01	696	7	1862	<5	<0.01	<10	17	21	<10	11	3
345688	<0.2	0.15	123	46	<0.5	<5	9.97	<1	12	106	13	3.67	3	0.02	<10	9.65	649	<2	0.01	306	68	<2	<0.01	300	5	1031	<5	<0.01	<10	21	23	<10	19	2
345689	0.3	0.27	<5	129	<0.5	<5	3.46	<1	5	90	47	1.71	6	0.08	<10	1.62	455	<2	0.01	52	63	5	<0.01	53	4	298	<5	<0.01	<10	11	21	<10	50	2
345690	0.4	0.16	5	37	<0.5	<5	0.19	<1	4	157	19	1.09	3	0.07	<10	0.12	316	<2	0.01	19	29	3	<0.01	21	1	13	<5	<0.01	<10	<10	3	<10	29	1
345691	<0.2	0.02	280	36	<0.5	<5	7.60	<1	31	212	3	2.25	7	0.01	<10	5.31	472	<2	0.01	634	25	<2	1.17	>10000	2	540	<5	<0.01	<10	22	9	<10	2	1
345692	<0.2	0.03	192	26	<0.5	<5	11.87	<1	9	209	2	2.65	4	0.01	<10	6.72	684	<2	0.01	228	25	<2	0.02	1600	3	1426	<5	<0.01	<10	21	12	<10	<1	1
C328001	<0.2	6.07	13	251	0.5	<5	3.66	<1	9	76	137	4.37	1	0.05	<10	0.56	276	2	0.25	23	138	<2	1.98	224	4	141	<5	0.05	<10	12	29	<10	46	2
C328002	<0.2	0.93	<5	186	<0.5	8	6.44	2	15	17	49	5.03	<1	0.12	<10	0.24	452	<2	0.06	23	312	5	0.20	32	12	935	<5	<0.01	<10	18	48	<10	141	3
C328003	<0.2	0.29	<5	56	<0.5	<5	1.14	<1	8	131	15	1.97	1	0.08	<10	0.13	304	3	0.02	30	335	<2	0.17	17	4	15	5	<0.01	<10	<10	31	<10	29	2
C328004	0.2	0.49	<5	82	0.7	<5	0.36	<1	6	26	8	1.66	1	0.15	<10	0.08	266	<2	0.04	8	510	9	<0.01	6	3	42	10	<0.01	15	<10	17	<10	50	7
C328005	0.7	2.19	<5	83	0.5	6	0.39	6	14	71	108	4.71	<1	0.10	<10	0.57	359	29	0.07	86	675	2	2.07	13	9	18	5	0.01	<10	<10	123	<10	310	8
C328006	0.3	0.30	<5	41	<0.5	5	<0.01	1	7	69	36	2.72	3	0.03	<10	0.09	486	<2	0.05	30	163	<2	0.02	<5	8	5	6	<0.01	<10	<10	14	<10	44	2
C328007	<0.2	0.36	5	64	<0.5	<5	0.03	<1	6	41	12	2.20	1	0.12	<10	0.05	172	<2	0.03	12	198	15	0.01	<5	4	21	9	<0.01	<10	<10	25	<10	54	2
C328008	<0.2	2.27	<5	183	<0.5	<5	0.35	1	13	70	8	4.46	<1	0.11	<10	1.73	807	<2	0.08	15	581	<2	<0.01	<5	10	21	7	0.07	<10	11	99	<10	91	5
C328009	0.2	0.18	<5	22	<0.5	<5	0.06	1	75	268	1	4.01	<1	0.03	<10	>15.00	705	<2	0.01	1933	44	<2	0.04	10	3	<1	5	<0.01	<10	16	8	<10	53	2

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

8V-2424-SG1

Company: **Durfeld Geological Management**
Project: **Eldorado**
Attn: **Rudi Durfeld**

Jul-17-08

We *hereby certify* the following geochemical analysis of 17 silt & soil samples submitted Jul-07-08

Sample Name	Au ppb
GD-07-01	<1
GD-07-02	18
GD-07-03	<1
GD-07-04	16
GD-07-05	2
GD-07-06	<1
GD-07-07	<1
GD-07-08	3
GD-07-09	<1
RD-07-01	<1
RD-07-02	<1
RD-07-03	<1
RD-07-04	6
RD-07-05	<1
RD-07-06	3
722 Soil	12
104 Soil	6

Certified by _____

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 8V2424SJ

Date : Jul-17-08

Durfeld Geological Management

Attention: Rudi Durfeld

Project: Eldorado

Sample type:

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
GD-07-01	1.8	1.36	6	181	<0.5	<5	0.31	1	17	43	29	3.56	2	0.07	<10	0.60	918	<2	0.02	52	497	33	0.01	<5	6	27	<5	0.03	<10	<10	67	<10	112	4
GD-07-02	<0.2	1.11	20	76	<0.5	<5	0.21	1	16	49	34	4.05	7	0.06	<10	0.59	582	<2	0.01	62	576	9	0.01	<5	7	9	5	0.02	<10	<10	70	<10	88	3
GD-07-03	<0.2	1.42	<5	187	<0.5	<5	0.33	1	18	49	28	3.93	2	0.07	<10	0.64	902	<2	0.02	55	539	7	<0.01	<5	7	32	<5	0.04	<10	<10	78	<10	93	4
GD-07-04	<0.2	1.00	13	125	<0.5	<5	0.19	2	20	58	44	4.63	22	0.06	<10	0.58	728	<2	0.01	103	434	6	<0.01	6	10	18	<5	0.01	<10	15	72	<10	86	4
GD-07-05	<0.2	1.08	10	136	0.5	<5	0.22	1	22	57	47	4.73	21	0.07	<10	0.60	815	<2	0.01	108	468	10	<0.01	6	11	20	<5	0.01	<10	<10	74	<10	90	4
GD-07-06	<0.2	1.10	14	181	<0.5	<5	0.55	1	18	63	34	3.69	3	0.07	<10	0.72	725	<2	0.02	85	473	13	0.03	<5	8	24	<5	0.04	<10	<10	69	<10	71	3
GD-07-07	<0.2	1.03	10	138	<0.5	<5	0.21	1	21	55	40	4.52	11	0.06	<10	0.57	807	<2	0.01	99	440	5	<0.01	5	10	18	<5	0.01	<10	13	72	<10	83	3
GD-07-08	<0.2	0.85	<5	124	<0.5	<5	0.17	1	17	38	30	4.24	<1	0.06	<10	0.38	572	<2	0.01	54	344	11	<0.01	<5	8	15	<5	0.02	<10	17	69	<10	89	3
GD-07-09	<0.2	1.10	8	140	0.5	<5	0.25	1	22	58	43	4.65	33	0.07	<10	0.61	825	<2	0.01	103	490	6	0.01	6	10	21	<5	0.01	<10	15	75	<10	91	3
RD-07-01	<0.2	1.32	26	71	<0.5	<5	0.18	1	13	59	10	3.19	<1	0.06	<10	0.62	425	<2	0.01	49	430	8	0.01	<5	4	10	<5	0.12	<10	<10	92	<10	72	2
RD-07-02	<0.2	1.15	264	72	<0.5	<5	0.52	1	17	81	13	3.24	<1	0.06	<10	0.52	662	<2	0.02	49	746	14	0.04	6	3	34	<5	0.09	<10	11	103	<10	85	2
RD-07-03	<0.2	0.89	287	61	<0.5	<5	0.29	1	11	49	6	2.90	<1	0.07	<10	0.48	480	<2	0.01	31	717	8	0.02	7	3	12	<5	0.11	<10	<10	80	<10	60	2
RD-07-04	<0.2	1.14	475	98	<0.5	<5	0.67	1	13	80	13	3.52	<1	0.10	<10	0.54	1031	2	0.01	45	851	8	0.04	11	3	29	<5	0.09	<10	12	101	<10	70	2
RD-07-05	<0.2	0.71	212	57	<0.5	<5	0.28	1	9	45	8	2.47	<1	0.08	<10	0.47	479	<2	0.01	31	577	5	0.01	5	2	12	<5	0.09	<10	12	72	<10	44	1
RD-07-06	<0.2	0.83	59	57	<0.5	<5	0.19	1	9	57	16	2.67	<1	0.08	<10	0.53	306	<2	0.01	41	507	6	<0.01	<5	3	8	<5	0.09	<10	<10	80	<10	52	2
722 Soil	<0.2	1.32	11	163	<0.5	<5	0.14	1	7	18	11	3.19	<1	0.09	<10	0.27	519	<2	0.01	17	573	5	<0.01	<5	5	11	<5	0.03	<10	12	60	<10	136	2
104 Soil	<0.2	1.59	71	130	<0.5	<5	0.07	1	13	66	42	3.60	<1	0.32	<10	0.83	188	<2	0.01	48	350	13	0.01	7	5	13	<5	0.18	<10	12	117	<10	80	4

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

8V-2470-RG1

Company: **Durfeld Geological**
Project:
Attn: **R. Durfeld**

Aug-05-08

We *hereby certify* the following geochemical analysis of 5 rock samples submitted Jul-10-08

Sample Name	Au ppb	W ppm
345952	2	<1
345952A	5	<1
345953	4	<1
345953A	3	<1
345954	3	<1
*DUP 345952	3	<1
*0218	874	
*STD MP-2		6580
*BLANK	<1	<1

Certified by _____

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : **8V2470RJ**

Date : Aug-05-08

Durfeld Geological

Attention: R. Durfeld

Project:

Sample type:

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345952	<0.2	0.31	<5	29	<0.5	6	>15.00	<1	2	12	63	0.28	1	0.05	<10	0.37	177	<2	0.01	4	107	<2	<0.01	<5	1	568	<5	<0.01	<10	<10	18	<10	7	2
345952A	<0.2	0.06	<5	12	<0.5	<5	12.59	<1	1	178	14	0.28	<1	0.01	<10	0.09	248	3	0.01	4	36	<2	<0.01	<5	<1	127	<5	<0.01	<10	<10	3	<10	3	1
345953	0.5	0.05	<5	47	<0.5	6	>15.00	1	2	5	18	0.44	1	0.02	17	0.12	1472	<2	0.01	4	1602	<2	<0.01	<5	1	449	<5	<0.01	<10	<10	7	<10	22	1
345953A	0.5	0.02	<5	164	<0.5	5	>15.00	1	3	32	204	0.47	33	0.01	13	0.20	1460	<2	0.01	4	245	9	<0.01	92	1	459	<5	<0.01	<10	<10	8	<10	17	<1
345954	<0.2	1.80	<5	871	1.3	<5	9.75	<1	44	163	72	6.16	3	0.27	46	2.55	1319	<2	0.03	161	3759	5	0.03	<5	19	931	6	0.02	<10	<10	116	<10	85	9

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0882-RG1

Company: **JM Stewart Survey Ltd.**
 Project: **ELDORADO**
 Attn: **JM Stewart**

Jul-23-09

We hereby certify the following geochemical analysis of 12 rocks samples submitted Jul-13-09

Sample Name	Au ppb	Au-Grav g/tonne	Te ppm
345744	341		
345745	406		
345746	75		
345747	8		
345748	1100		
345749	16		
345750	8		
345801	16		
345802	>10000	130.2	<0.1
345803	343		
345806	150		
345807	37		
*DUP 345744	357		
*DUP 345803	334		
*0211	2124		
*BLANK	<1		<0.1

Au F.A. AA finish

Certified by 

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V0882RJ

Date : Jul-23-09

JM Stewart Survey Ltd.

Attention: JM Stewart

Project: ELDORADO

Sample type: Rocks

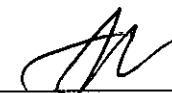
Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345744	1.0	0.05	822	10	<0.5	<5	>15.00	10	1	22	<1	3.34	<1	0.01	<10	8.55	5541	<2	0.02	<1	58	6	0.44	18	<1	304	<5	<0.01	<10	42	3	<10	24	2
345745	1.1	0.03	945	11	<0.5	<5	>15.00	12	1	10	<1	2.89	<1	0.01	<10	9.08	5966	<2	0.01	<1	53	4	0.48	11	<1	339	<5	<0.01	11	45	1	<10	26	1
345746	<0.2	0.15	223	128	<0.5	<5	2.64	3	22	149	42	3.54	<1	0.06	<10	1.16	545	2	0.01	19	83	11	1.98	19	1	37	<5	<0.01	<10	<10	10	<10	22	2
345747	<0.2	2.59	54	105	<0.5	<5	0.46	1	11	64	<1	5.09	<1	0.27	<10	0.75	507	<2	0.04	19	170	<2	0.01	<5	5	7	<5	0.01	<10	11	53	<10	74	2
345748	0.2	0.24	6771	41	<0.5	<5	1.89	81	7	110	7	1.81	<1	0.08	<10	0.84	1263	<2	0.01	11	125	9	0.79	22	2	82	<5	<0.01	<10	<10	12	<10	26	1
345749	<0.2	0.69	44	20	<0.5	<5	4.70	1	13	52	32	3.99	1	0.04	<10	2.26	666	<2	0.02	16	794	8	0.23	<5	9	142	<5	<0.01	<10	<10	90	<10	50	2
345750	<0.2	3.21	63	186	1.5	<5	1.90	1	27	86	79	5.76	<1	0.74	20	0.90	597	<2	0.09	23	8909	4	1.36	<5	23	28	<5	0.26	13	<10	111	<10	88	2
345801	<0.2	0.89	67	42	<0.5	<5	3.00	1	19	51	152	3.96	1	0.07	<10	1.21	566	<2	0.01	19	927	14	0.22	11	10	58	<5	<0.01	<10	<10	89	<10	62	3
345802	>200.0	0.18	>10000	17	<0.5	22	0.04	1602	1	22	6758	11.12	2	0.07	<10	0.02	43	<2	0.01	1	484	>10000	3.78	>10000	1	14	<5	<0.01	<10	24	2	<10	668	4
345803	3.0	3.96	474	130	0.8	<5	2.10	7	15	75	114	3.39	1	0.31	<10	0.48	275	4	0.54	13	926	254	1.07	248	11	75	<5	0.11	<10	<10	133	<10	123	1
345806	13.5	0.26	291	19	<0.5	<5	6.54	13	199	543	78	1.52	114	0.16	<10	0.17	225	<2	0.07	4892	148	32	>5.00	>10000	<1	735	<5	<0.01	<10	<10	5	133	43	1
345807	<0.2	0.02	43	<10	<0.5	<5	10.40	1	7	206	<1	2.25	4	0.01	<10	5.71	412	<2	0.01	80	49	21	0.30	915	2	851	<5	<0.01	<10	<10	9	22	7	1

As has interference on Cd

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.





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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0882-SG1

Company: **JM Stewart Survey Ltd.**
Project: **ELDORADO**
Attn: **JM Stewart**

Jul-23-09

We hereby certify the following geochemical analysis of 4 soils samples submitted Jul-13-09

Sample Name	Au ppb
345742	38
345743	18
345804	127
345805	107
*0211	2274
*BLANK	<1

Au F.A. AA finish

Certified by _____ 

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V0882SJ

Date : Jul-23-09

JM Stewart Survey Ltd.

Attention: JM Stewart

Project: ELDORADO

Sample type: Soils

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345742	<0.2	0.68	213	67	<0.5	<5	0.28	3	14	58	36	2.78	1	0.12	<10	0.76	434	<2	0.03	72	709	10	0.02	36	4	14	<5	0.07	<10	<10	75	<10	52	1
345743	<0.2	0.63	189	63	<0.5	<5	0.26	3	17	66	33	2.77	<1	0.13	<10	1.04	478	<2	0.03	112	763	9	0.02	14	4	11	<5	0.08	<10	<10	70	<10	54	1
345804	<0.2	0.67	420	171	0.8	<5	1.54	6	30	32	101	5.55	1	0.29	11	0.86	918	<2	0.02	32	2123	40	0.08	24	13	52	5	0.11	<10	<10	138	<10	113	4
345805	1.1	1.12	565	125	<0.5	<5	0.25	8	12	23	73	4.21	1	0.17	<10	0.30	491	<2	0.04	18	669	33	0.09	59	12	16	<5	0.04	<10	<10	84	<10	146	2

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.





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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1136-RG1

Company: **J.M Stewart Surveys Ltd.**
Project: **Eldorado**
Attn: **J.M Stewart**

Sep-11-09

We hereby certify the following geochemical analysis of 11 rock samples submitted Aug-31-09

Sample Name	Au ppb	Au Check ppb	Sample-Wt Kg
20701	6	4	0.6
20702	<1		1.1
20703	<1		0.9
20704	<1		0.4
20705	59		0.5
20706	8		0.5
20707	1		0.6
20708	<1		0.7
20709	<1		0.5
20710	<1		0.5
20711	44		1.3
*0211	2150		
*BLANK	<1		

Au F.A. AA finish

Certified by _____

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1136RJ

Date : Sep-11-09

J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado


Sample type: rock

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
20701	<0.2	1.46	14	115	0.8	16	0.43	2	15	88	72	3.66	1	0.34	<10	1.26	306	<2	0.07	16	923	3	0.14	10	4	20	<5	0.15	<10	<10	114	<10	46	2	
20702	<0.2	2.74	22	67	0.6	29	1.00	3	20	27	78	5.70	<1	0.13	<10	0.81	117	2	0.28	23	395	4	1.94	14	3	57	<5	0.08	<10	13	41	<10	26	3	
20703	<0.2	0.76	<5	145	0.6	8	1.46	1	9	30	14	1.79	<1	0.15	<10	0.23	294	<2	0.05	8	125	8	0.04	<5	4	137	<5	0.05	<10	<10	53	<10	45	3	
20704	<0.2	0.32	26	34	<0.5	8	0.02	1	8	153	20	2.00	1	0.06	<10	0.03	253	<2	0.01	26	194	3	0.01	6	3	13	<5	<0.01	<10	<10	32	<10	35	2	
20705	<0.2	1.58	<5	384	0.6	10	0.47	1	13	198	31	2.52	1	0.14	14	2.06	662	<2	0.06	66	758	7	0.01	9	4	14	5	0.01	<10	<10	63	<10	75	9	
20706	<0.2	1.36	8	167	<0.5	13	2.80	2	13	70	12	2.76	1	0.12	<10	0.71	1167	<2	0.05	19	572	7	0.12	8	8	37	<5	0.01	<10	<10	54	<10	64	3	
20707	<0.2	3.55	22	218	0.7	12	3.56	1	17	43	54	2.61	<1	0.14	<10	0.35	560	<2	0.23	14	3852	<2	0.60	12	6	126	<5	0.11	<10	<10	72	<10	44	5	
20708	<0.2	3.69	8	129	<0.5	20	2.51	2	10	77	45	4.13	1	0.16	<10	0.67	548	9	0.29	10	2304	7	1.23	13	12	90	<5	0.02	<10	<10	97	<10	110	2	
20709	<0.2	2.35	26	226	0.6	22	0.93	4	14	66	55	4.98	1	0.43	<10	0.48	396	8	0.21	33	663	5	1.00	11	15	51	<5	0.07	<10	10	215	<10	183	2	
20710	<0.2	0.54	38	60	<0.5	19	8.71	3	4	27	1	4.71	1	0.05	<10	2.88	566	<2	0.02	6	102	3	0.22	9	15	255	<5	<0.01	<10	14	87	<10	31	2	
20711	<0.2	0.34	138	233	<0.5	16	11.43	3	7	15	27	4.33	<1	0.14	<10	1.26	1232	2	0.01	9	100	5	2.34	13	6	163	<5	<0.01	<10	16	27	<10	46	2	
Duplicates:																																			
20701	<0.2	1.57	15	124	0.8	18	0.52	2	17	96	71	4.13	<1	0.38	<10	1.43	347	<2	0.08	17	1009	2	0.15	10	4	22	<5	0.18	<10	<10	116	<10	50	3	
20710	<0.2	0.64	36	61	<0.5	19	8.60	3	4	28	1	4.68	<1	0.05	<10	2.83	564	<2	0.03	6	106	3	0.22	8	15	267	<5	<0.01	<10	13	89	<10	31	2	
Standards:																																			
Blank	<0.2	<0.01	<5	<10	<0.5	<5	<0.01	<1	<1	<1	<1	<0.01	<1	<0.01	<10	<0.01	<5	<2	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<5	<0.01	<10	<10	<1	<10	<1	<1	
CH-4	1.4	1.74	13	320	1.1	22	0.66	4	33	118	2016	5.03	<1	1.34	13	1.26	352	2	0.05	57	712	15	0.61	14	7	8	<5	0.21	<10	<10	84	<10	226	13	

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1136-SG1

Company: **J.M Stewart Surveys Ltd.**
Project: Eldorado
Attn: J.M Stewart

Sep-11-09

We hereby certify the following geochemical analysis of 21 soil samples submitted Aug-31-09

Sample Name	Au ppb
RD-09	112
RD-12	11
RD-15	56
RD-16	57
RD-17	50
RD-18	51
RD-19	66
RD-20	27
RD-22	18
RD-24	13
RD-25	17
RD-09-01 SILT	269
RD-09-02 SILT	12
RD-09-03 SILT	21
RD-09-04 SILT	6
RD-09-07 SILT	<1
RD-09-08 SILT	<1
RD-10 SILT	<1
RD-11 SILT	1
RD-13 SILT	36
RD-14 SILT	44
RD-21 SILT	24
*0211	2136
*BLANK	<1

Au F.A. AA finish

Certified by _____





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Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1136-SG2


Company: **J.M Stewart Surveys Ltd.**
Project: Eldorado
Attn: J.M Stewart

Sep-11-09

We hereby certify the following geochemical analysis of 1 soil sample submitted Aug-31-09

Sample Name	Au ppb
RD-23 SILT	20
*0211	1975
*BLANK	<1

Au F.A. AA finish

Certified by _____ 

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1136SJ

Date : Sep-11-09

J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado

Sample type: soil

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
RD-09	<0.2	2.20	6348	87	0.8	141	0.19	7	37	84	166	9.27	<1	0.12	12	0.51	963	<2	0.01	53	1310	25	0.02	5	8	7	5	0.06	<10	<10	128	<10	156	3	
RD-12	<0.2	2.29	402	146	1.7	24	0.14	5	31	105	96	5.98	1	0.25	<10	1.17	635	<2	0.01	85	1040	9	0.02	<5	8	5	<5	0.25	<10	<10	134	<10	109	2	
RD-15	<0.2	1.96	811	121	1.2	21	0.19	4	25	86	79	4.92	1	0.25	<10	0.94	529	<2	0.01	65	1507	45	0.02	24	6	13	<5	0.17	<10	<10	137	<10	124	2	
RD-16	<0.2	2.03	693	153	1.5	21	0.18	4	32	89	78	4.99	1	0.36	<10	1.18	995	<2	0.01	69	1378	44	0.02	17	7	10	<5	0.25	<10	<10	151	<10	130	2	
RD-17	0.6	1.84	661	139	1.2	20	0.17	4	29	83	67	4.84	1	0.27	<10	1.00	964	<2	0.01	59	1033	48	0.03	18	6	12	<5	0.19	<10	<10	143	<10	129	2	
RD-18	<0.2	1.91	827	131	0.9	20	0.15	4	26	72	59	4.91	1	0.20	<10	0.73	1194	<2	0.01	48	1164	49	0.05	25	5	14	<5	0.11	<10	<10	128	<10	124	2	
RD-19	<0.2	1.79	512	115	1.2	19	0.19	4	26	94	66	4.79	1	0.22	<10	1.04	624	<2	0.01	63	1177	33	0.02	15	5	10	<5	0.21	<10	<10	159	<10	112	2	
RD-20	<0.2	1.35	493	110	1.0	17	0.20	4	26	77	59	4.31	1	0.25	<10	0.97	719	<2	0.01	67	1148	36	0.03	16	5	11	<5	0.17	<10	<10	129	<10	113	1	
RD-22	<0.2	1.59	453	64	0.7	15	0.10	3	14	50	27	3.79	1	0.06	<10	0.38	692	2	0.01	28	1022	23	0.07	9	2	12	<5	0.08	<10	<10	108	<10	92	1	
RD-24	<0.2	1.85	233	70	0.9	17	0.10	4	21	95	31	4.43	1	0.06	<10	0.95	395	<2	0.01	93	1317	13	0.02	7	3	8	<5	0.14	<10	<10	119	<10	98	2	
RD-25	<0.2	2.32	282	95	1.0	18	0.09	4	18	74	34	4.58	1	0.08	<10	0.74	333	<2	0.01	57	1053	14	0.04	8	4	9	<5	0.14	<10	<10	115	<10	105	2	
RD-09-01 SILT	<0.2	1.18	203	93	0.9	14	0.37	3	21	77	28	3.62	1	0.17	<10	1.14	459	<2	0.02	90	765	10	0.02	6	5	23	<5	0.14	<10	<10	96	<10	83	2	
RD-09-02 SILT	<0.2	1.17	196	94	0.9	14	0.36	3	19	73	28	3.31	1	0.17	<10	1.11	446	<2	0.02	88	743	8	0.02	5	5	23	<5	0.13	<10	<10	85	<10	81	1	
RD-09-03 SILT	<0.2	1.20	240	93	0.6	18	0.31	5	16	51	34	4.68	1	0.12	<10	0.56	447	2	0.02	26	824	15	0.03	13	4	22	<5	0.08	<10	<10	126	<10	103	2	
RD-09-04 SILT	<0.2	1.08	183	90	0.8	13	0.34	3	18	66	24	3.20	1	0.16	<10	1.04	413	<2	0.02	83	760	8	0.02	5	5	22	<5	0.12	<10	<10	83	<10	74	1	
RD-09-07 SILT	<0.2	1.10	34	80	0.5	18	0.31	4	21	56	31	4.68	7	0.07	<10	0.65	676	<2	0.02	77	661	8	0.02	<5	8	19	<5	0.03	<10	<10	77	<10	93	2	
RD-09-08 SILT	<0.2	1.25	25	82	<0.5	15	0.30	4	17	51	24	3.99	1	0.06	<10	0.71	548	<2	0.02	59	551	6	0.01	<5	7	18	<5	0.03	<10	<10	64	<10	82	2	
RD-10 SILT	<0.2	0.77	146	107	1.0	17	0.43	4	24	67	20	4.21	1	0.26	<10	0.75	588	4	0.01	54	1032	8	0.04	<5	7	14	<5	0.17	<10	<10	93	<10	91	2	
RD-11 SILT	<0.2	0.91	128	136	0.9	17	0.45	4	23	69	23	4.26	1	0.21	<10	0.79	725	<2	0.01	60	945	10	0.05	<5	7	16	<5	0.16	<10	<10	101	<10	114	2	
RD-13 SILT	<0.2	1.11	489	130	1.2	22	0.61	6	37	83	54	5.40	1	0.27	<10	1.44	1150	<2	0.02	116	1102	13	0.06	9	10	21	<5	0.18	<10	<10	121	<10	156	2	
RD-14 SILT	<0.2	1.10	477	146	1.1	21	0.66	5	34	88	59	5.32	1	0.34	<10	1.65	852	<2	0.02	123	1147	14	0.06	10	10	22	<5	0.19	<10	<10	135	<10	129	3	
RD-21 SILT	<0.2	0.91	336	69	0.8	15	0.28	3	18	81	37	3.75	1	0.16	<10	0.79	372	<2	0.01	54	886	21	0.02	10	3	12	<5	0.15	<10	<10	137	<10	78	1	
RD-23 SILT	<0.2	0.82	256	63	0.9	16	0.25	4	18	65	27	4.11	1	0.12	<10	0.55	422	<2	0.01	39	738	14	0.02	7	3	12	<5	0.16	<10	<10	145	<10	81	2	
Duplicates:																																			
RD-09	<0.2	2.20	6272	86	0.8	155	0.19	7	36	80	167	9.12	1	0.12	12	0.50	966	<2	0.01	52	1310	27	0.02	5	8	7	5	0.06	<10	<10	126	<10	154	3	
RD-24	<0.2	1.91	228	69	0.8	18	0.11	4	20	95	31	4.38	1	0.06	<10	1.00	385	<2	0.01	92	1272	13	0.02	7	3	8	<5	0.14	<10	<10	121	<10	97	2	
RD-13 SILT	<0.2	1.14	471	132	1.1	22	0.58	6	36	84	57	5.16	1	0.27	<10	1.41	1120	<2	0.02	112	1043	12	0.06	8	10	21	<5	0.18	<10	<10	122	<10	153	2	
RD-23 SILT	<0.2	0.81	253	60	0.8	15	0.24	4	18	59	25	4.09	1	0.11	<10	0.55	409	<2	0.01	40	708	14	0.02	7	3	10	<5	0.16	<10	<10	143	<10	79	1	
Standards:																																			
Blank	<0.2	<0.01	<5	<10	<0.5	<5	<0.01	<1	1	<1	<1	<0.01	<1	<0.01	<10	<0.01	<5	<2	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<5	<0.01	<10	<10	<1	<10	<1	<1	

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado

Sample type: soil

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1136SJ

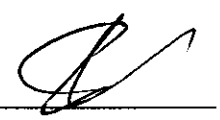
Date : Sep-11-09

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
ICP-5	27.4	1.23	1469	182	0.6	63	2.38	18	21	175	2379	4.40	1	0.20	<10	1.31	670	6	0.08	126	673	2559	1.18	243	3	69	<5	0.08	<10	<10	67	147	1483	4

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.

Signed: 



Assayers Canada
 8282 Sherbrooke St.
 Vancouver, B.C.
 V5X 4R6
 Tel: (604) 327-3436
 Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1137-RG1

Company: **J.M Stewart Surveys Ltd.**
 Project: Eldorado
 Attn: J.M Stewart

Sep-11-09

We hereby certify the following geochemical analysis of 22 rock samples submitted Aug-31-09

Sample Name	Au ppb	Au-Check ppb	Sample-Wt Kg
345827	49	39	0.3
345831	5		0.5
345833	4		0.3
345834	<1		0.4
345835	32		0.3
345836	<1		0.3
345837	<1		0.2
345838	16		0.4
345839	12		0.3
345840	<1		0.3
345841	<1		0.9
345842	5		0.9
345844	7		1.2
345845	7		2.1
345846	8		0.8
345847	<1		1.1
345602	<1		1.1
345606	15		0.6
345615	43		1.1
345616	25	28	1.9
345617A	52		2.2
345619	10		1.7
*0211	1900		
*BLANK	<1		

Certified by _____ 



Assayers Canada
 8282 Sherbrooke St.
 Vancouver, B.C.
 V5X 4R6
 Tel: (604) 327-3436
 Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1137-RG2

Company: **J.M Stewart Surveys Ltd.**
 Project: **Eldorado**
 Attn: **J.M Stewart**

Sep-11-09

We hereby certify the following geochemical analysis of 6 rock samples submitted Aug-31-09

Sample Name	Au ppb	Au-Check ppb	Sample-Wt Kg
345620	<1	3	1.5
345622	12		1.3
345624	6		0.4
345625	55		1.0
345627	49		1.2
345628	38		0.7
345617B	28		
*0211	1920		
*BLANK	<1		

Au F.A. AA finish

Certified by  _____

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1137RJ

Date : Sep-11-09

J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado

Sample type: rock

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345827	<0.2	4.26	22	314	0.7	19	1.30	1	19	128	46	4.20	<1	0.56	<10	0.72	336	8	0.42	29	590	<2	0.72	15	11	71	<5	0.09	<10	<10	98	<10	108	2
345831	<0.2	7.75	32	122	0.9	27	4.54	1	17	102	72	5.47	3	0.39	<10	0.72	262	118	1.23	178	857	4	2.81	21	19	334	<5	0.09	<10	17	574	<10	118	5
345833	<0.2	0.63	46	58	<0.5	7	0.14	1	7	110	9	1.74	<1	0.10	<10	0.36	301	<2	0.05	13	627	10	0.01	5	3	6	6	<0.01	<10	<10	28	<10	69	5
345834	<0.2	3.55	8	270	2.2	35	2.45	5	52	115	156	7.75	1	0.09	10	2.13	1236	<2	0.28	88	1739	3	0.06	20	9	177	<5	0.38	<10	14	288	<10	119	28
345835	<0.2	1.41	5	96	1.1	13	0.40	2	18	147	70	3.22	1	0.08	<10	0.99	564	<2	0.03	57	500	4	0.13	10	7	11	<5	0.16	<10	<10	64	<10	54	13
345836	<0.2	0.42	<5	46	<0.5	7	0.04	1	9	44	7	2.00	1	0.06	<10	0.04	250	<2	0.05	12	91	5	0.01	<5	4	39	<5	<0.01	<10	<10	49	<10	38	3
345837	<0.2	0.56	<5	151	0.6	8	0.15	1	9	78	17	2.00	<1	0.17	<10	0.21	338	<2	0.07	12	535	6	<0.01	<5	4	26	<5	0.07	<10	<10	55	<10	37	4
345838	<0.2	1.07	12	351	<0.5	13	0.10	2	11	118	17	3.32	<1	0.05	<10	0.66	568	15	0.07	30	418	9	0.09	8	9	21	<5	<0.01	<10	<10	50	<10	97	2
345839	<0.2	0.37	<5	84	<0.5	16	0.25	3	15	83	11	3.81	2	0.07	15	0.11	768	<2	0.05	31	696	7	0.01	5	8	12	5	<0.01	<10	<10	64	<10	70	2
345840	<0.2	0.67	<5	125	0.5	6	1.83	1	8	36	1	1.81	1	0.13	<10	0.19	375	<2	0.04	8	91	7	0.04	<5	4	139	<5	0.03	<10	<10	52	<10	38	3
345841	<0.2	0.69	<5	131	0.7	9	0.99	1	9	27	5	1.87	1	0.14	<10	0.17	270	<2	0.04	10	417	7	0.02	<5	4	74	<5	0.05	<10	<10	51	<10	56	3
345842	<0.2	3.67	<5	465	<0.5	26	0.65	3	34	152	48	6.35	1	0.18	13	1.87	976	<2	0.05	121	901	6	0.02	13	17	81	<5	0.01	<10	<10	137	<10	101	5
345844	<0.2	0.59	<5	264	<0.5	<5	>15.00	<1	4	14	13	0.99	1	0.08	<10	0.21	2675	<2	0.01	6	337	<2	0.71	<5	4	415	<5	<0.01	13	11	17	<10	29	1
345845	<0.2	1.30	9	119	<0.5	8	>15.00	<1	6	16	10	2.20	1	0.15	18	0.43	3081	<2	0.03	9	>10000	3	0.97	6	5	332	<5	0.01	14	<10	39	<10	39	4
345846	<0.2	0.69	<5	111	0.5	18	0.59	3	15	56	14	4.14	1	0.08	<10	0.07	712	<2	0.04	18	638	10	0.02	6	9	22	<5	<0.01	<10	<10	60	<10	78	2
345847	<0.2	0.31	10	160	<0.5	6	2.23	1	6	59	22	1.37	<1	0.16	<10	0.17	230	<2	0.03	12	316	18	0.05	<5	1	62	<5	<0.01	<10	<10	4	<10	81	3
345602	<0.2	2.47	<5	146	0.9	8	1.80	<1	32	538	12	1.68	<1	0.19	<10	2.87	376	<2	0.17	918	773	<2	0.09	18	4	47	<5	0.16	<10	<10	31	<10	67	13
345606	<0.2	0.53	11	114	<0.5	12	2.32	2	11	117	43	3.12	2	0.05	<10	0.91	535	<2	0.02	28	262	8	0.07	22	6	97	<5	<0.01	<10	<10	75	<10	70	2
345615	<0.2	0.36	<5	192	<0.5	9	1.37	1	12	99	918	2.01	<1	0.15	18	0.46	106	20	0.04	22	474	7	0.83	5	3	18	10	<0.01	<10	<10	32	<10	20	2
345616	<0.2	0.53	30	185	<0.5	9	0.63	1	10	82	168	2.09	1	0.07	<10	0.16	184	7	0.01	21	257	5	0.36	7	4	41	8	<0.01	<10	<10	38	<10	32	5
345617A	0.6	0.18	580	211	<0.5	6	1.33	1	7	157	77	1.63	1	0.10	<10	0.51	367	2	0.01	11	87	3	0.64	33	1	23	<5	<0.01	<10	<10	7	<10	14	1
345619	<0.2	0.66	18	42	<0.5	13	5.90	2	9	45	170	2.99	1	0.10	<10	2.32	586	3	0.02	14	246	7	0.61	49	4	66	7	<0.01	<10	<10	28	<10	31	3
345620	<0.2	0.54	21	281	<0.5	12	1.66	2	12	75	66	2.81	1	0.05	<10	0.58	402	3	0.01	22	116	9	0.33	7	6	56	8	<0.01	<10	<10	61	<10	52	4
345622	<0.2	0.56	26	48	<0.5	14	6.70	2	12	59	23	3.63	1	0.02	<10	2.93	1117	<2	0.02	20	166	3	0.68	22	8	116	<5	<0.01	<10	12	69	<10	41	2
345624	<0.2	0.55	124	52	<0.5	14	3.93	2	8	49	210	3.12	<1	0.09	<10	1.47	482	13	0.01	18	142	10	0.77	41	4	58	7	<0.01	<10	<10	35	<10	32	3
345625	1.2	0.30	420	35	<0.5	5	0.44	1	3	80	146	1.35	1	0.07	<10	0.16	130	2	0.01	8	41	14	0.07	51	1	24	<5	<0.01	<10	<10	15	<10	20	2
345627	0.4	0.51	136	39	<0.5	13	1.75	2	9	59	638	2.87	1	0.10	<10	0.53	234	11	0.01	21	79	11	0.78	18	5	45	7	<0.01	<10	<10	35	<10	103	5
345628	<0.2	0.12	175	112	<0.5	11	3.59	2	12	126	41	2.83	<1	0.05	<10	1.52	926	<2	0.01	11	33	3	0.96	17	1	35	<5	<0.01	<10	10	10	<10	13	1
345617B	<0.2	1.03	5	221	1.0	14	0.57	2	19	126	359	3.38	1	0.61	<10	0.93	224	<2	0.12	28	1113	2	0.04	11	2	26	<5	0.23	<10	<10	145	<10	50	2

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
Duplicates:																																		
345827	<0.2	4.67	24	329	0.9	19	1.42	1	20	149	47	4.44	<1	0.60	<10	0.78	383	8	0.46	30	626	<2	0.76	17	11	79	<5	0.10	<10	<10	101	<10	112	2
345840	<0.2	0.75	<5	124	0.5	7	1.75	1	8	37	1	1.80	1	0.13	<10	0.19	361	<2	0.04	8	110	7	0.04	<5	4	159	<5	0.04	<10	<10	53	<10	37	3
345616	<0.2	0.56	29	180	<0.5	9	0.61	1	10	81	169	2.01	1	0.07	<10	0.15	177	6	0.01	21	260	5	0.36	6	4	47	8	<0.01	<10	<10	38	<10	31	5
345620	<0.2	0.50	22	265	<0.5	11	1.62	2	12	71	65	2.75	1	0.05	<10	0.56	394	3	0.01	21	105	9	0.32	6	6	48	7	<0.01	<10	<10	59	<10	50	4
Standards:																																		
Blank	<0.2	<0.01	<5	<10	<0.5	<5	<0.01	<1	<1	<1	<1	<0.01	<1	<0.01	<10	<0.01	<5	<2	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<5	<0.01	<10	<10	<1	<10	<1	<1
CH-4	1.4	1.74	13	320	1.1	22	0.66	4	33	118	2016	5.03	<1	1.34	13	1.26	352	2	0.05	57	712	15	0.61	14	7	8	<5	0.21	<10	<10	84	<10	226	13

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.





Assayers Canada
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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1137-SG1


Company: **J.M Stewart Surveys Ltd.**
Project: Eldorado
Attn: J.M Stewart

Sep-11-09

We hereby certify the following geochemical analysis of 22 soil samples submitted Aug-31-09

Sample Name	Au ppb
345848	14
345849	<1
345603	<1
345604	19
345605	56
345607	8
345608	114
345609	23
345610	18
345611	212
345612	18
345613	52
345614	39
345618	160
345621	16
345623	22
345626	2998
345828	15
345829	8
345830	<1
345832	<1
345843	<1
*0211	2022
*BLANK	<1

Au F.A. AA finish

Certified by 



Assayers Canada
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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-1137-SG2

Company: **J.M Stewart Surveys Ltd.**
Project: Eldorado
Attn: J.M Stewart

Sep-11-09

We *hereby certify* the following geochemical analysis of 2 soil samples submitted Aug-31-09

Sample Name	Au ppb
345850	<1
345601	2
*0211	2030
*BLANK	<1

Au F.A. AA finish

Certified by _____

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1137SJ

Date : Sep-11-09

J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado

Sample type: soil

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
345848	<0.2	0.57	155	112	0.7	18	0.37	4	24	61	32	4.39	1	0.28	<10	0.64	776	<2	0.01	52	995	8	0.02	<5	10	10	<5	0.12	<10	<10	93	<10	87	3
345849	<0.2	0.76	153	126	0.9	18	0.39	4	27	67	21	4.36	<1	0.24	<10	0.72	1017	<2	0.01	53	976	7	0.02	<5	9	12	<5	0.15	<10	<10	98	<10	95	2
345603	<0.2	1.29	383	121	1.1	19	0.38	4	26	107	51	4.31	1	0.21	<10	1.15	661	<2	0.01	94	919	14	0.04	<5	6	14	<5	0.18	<10	<10	124	<10	112	2
345604	<0.2	0.72	417	41	<0.5	11	0.16	2	11	30	43	2.85	1	0.04	<10	0.20	224	<2	0.01	29	355	28	0.01	19	4	9	<5	0.02	<10	<10	53	<10	85	1
345605	<0.2	0.88	650	67	0.6	17	0.10	4	14	52	69	4.26	1	0.05	10	0.17	351	<2	0.01	37	657	19	0.01	19	8	11	5	0.02	<10	<10	85	<10	116	1
345607	<0.2	0.68	325	49	<0.5	9	0.05	2	11	32	28	2.39	<1	0.05	<10	0.19	296	<2	0.01	20	435	21	0.01	14	3	11	<5	0.04	<10	<10	55	<10	63	1
345608	<0.2	1.07	430	78	0.7	13	0.11	3	15	44	88	3.08	1	0.09	<10	0.34	484	<2	0.01	33	516	13	0.01	10	5	13	<5	0.05	<10	<10	67	<10	61	1
345609	<0.2	1.54	363	91	0.7	15	0.24	3	17	55	140	3.82	1	0.06	<10	0.64	209	2	0.01	38	615	23	0.02	17	4	12	<5	0.10	<10	<10	96	<10	65	1
345610	<0.2	0.72	24	32	0.5	14	0.13	3	15	50	136	3.59	1	0.04	<10	0.10	447	<2	0.01	34	629	11	0.01	<5	7	9	8	<0.01	<10	<10	77	<10	72	2
345611	<0.2	0.97	1206	67	<0.5	10	0.15	2	9	12	75	2.46	<1	0.07	10	0.09	199	3	0.01	13	191	11	0.01	49	4	17	5	<0.01	<10	<10	22	<10	44	1
345612	<0.2	0.93	43	50	<0.5	17	0.15	4	23	51	208	4.45	1	0.02	10	0.09	234	6	0.01	38	687	10	0.03	6	6	7	8	<0.01	<10	<10	80	<10	40	2
345613	<0.2	0.86	156	94	<0.5	19	0.10	4	20	29	259	4.64	<1	0.04	<10	0.21	186	14	0.01	38	503	23	0.04	16	4	10	5	0.02	<10	<10	57	<10	38	1
345614	0.5	0.21	40	40	<0.5	16	0.11	4	11	25	970	4.03	<1	0.04	<10	0.04	134	47	<0.01	19	497	13	0.02	8	4	14	8	<0.01	<10	<10	37	<10	25	2
345618	4.1	0.21	2298	156	<0.5	35	0.25	8	27	6	3232	8.08	3	0.06	19	0.06	661	20	0.01	50	756	29	0.28	434	3	27	18	<0.01	<10	<10	16	10	162	6
345621	<0.2	1.16	33	168	0.7	21	0.45	5	38	76	63	5.20	<1	0.29	<10	0.74	945	<2	0.02	59	1228	7	0.04	<5	18	16	<5	0.11	<10	<10	156	<10	70	2
345623	<0.2	1.52	273	114	0.6	23	0.40	5	31	123	91	5.54	1	0.10	<10	0.69	610	<2	0.01	73	1273	18	0.03	16	8	18	<5	0.08	<10	<10	166	<10	77	2
345626	25.3	0.18	5275	174	<0.5	22	0.18	4	10	6	635	4.83	2	0.25	<10	0.07	199	26	0.02	12	196	4002	0.50	2001	2	82	5	<0.01	<10	<10	15	11	603	4
345828	<0.2	0.83	264	82	0.7	12	0.32	3	16	60	30	2.88	<1	0.18	<10	0.82	345	<2	0.02	58	733	11	0.03	5	4	10	<5	0.13	<10	<10	79	<10	60	1
345829	<0.2	0.67	174	72	0.6	11	0.28	2	14	64	19	2.73	<1	0.18	<10	0.69	303	<2	0.02	49	673	7	0.01	<5	3	8	<5	0.13	<10	<10	83	<10	53	1
345830	<0.2	1.13	162	79	0.9	11	0.40	2	17	125	36	2.73	<1	0.14	<10	0.85	158	<2	0.02	60	706	13	0.04	9	4	13	<5	0.16	<10	<10	88	<10	64	1
345832	<0.2	1.38	10	169	0.6	15	0.44	3	21	66	25	3.71	131	0.07	<10	0.76	586	<2	0.02	74	351	5	0.02	<5	7	28	<5	0.07	<10	<10	71	<10	67	2
345843	<0.2	0.86	7	102	0.7	16	0.25	4	17	43	6	4.15	4	0.05	<10	0.43	532	<2	0.02	35	331	6	0.01	<5	4	21	<5	0.13	<10	<10	121	<10	66	2
345850	<0.2	0.52	213	55	0.5	10	0.26	2	14	42	25	2.44	<1	0.13	<10	0.58	383	<2	0.01	43	595	6	0.03	<5	4	7	<5	0.09	<10	<10	57	<10	55	1
345601	<0.2	0.55	135	53	0.5	9	0.23	2	15	44	19	2.20	<1	0.10	<10	0.78	273	<2	0.01	77	587	3	0.01	<5	2	7	<5	0.10	<10	<10	59	<10	43	1
Duplicates:																																		
345848	<0.2	0.60	162	110	0.7	19	0.40	5	25	63	30	4.57	<1	0.27	<10	0.66	844	<2	0.01	55	1060	8	0.03	<5	10	12	<5	0.12	<10	<10	96	<10	89	3
345611	<0.2	0.92	1151	70	<0.5	9	0.14	2	9	10	68	2.29	<1	0.08	10	0.08	222	3	0.01	12	170	9	0.01	45	4	19	5	<0.01	<10	<10	20	<10	41	1
345830	<0.2	1.08	162	75	0.8	10	0.39	2	15	120	35	2.51	1	0.13	<10	0.78	151	<2	0.02	55	682	11	0.04	8	4	13	<5	0.15	<10	<10	81	<10	59	1
345850	<0.2	0.56	218	63	0.5	10	0.30	2	15	43	17	2.55	1	0.15	<10	0.69	429	<2	0.01	48	607	5	0.02	<5	4	8	<5	0.10	<10	<10	59	<10	55	1

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.



J.M Stewart Surveys Ltd.

Attention: J.M Stewart

Project: Eldorado

Sample type: soil

Assayers Canada

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V1137SJ


Date : Sep-11-09

Multi-Element ICP-AES Analysis

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
Standards:																																				
Blank	<0.2	<0.01	<5	<10	<0.5	<5	<0.01	<1	1	1	<1	<0.01	<1	<0.01	<10	<0.01	<5	<2	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<5	<0.01	<10	<10	<1	<10	<1	<1		
ICP-5	25.0	1.21	1476	171	0.6	67	2.23	15	20	165	2262	4.03	<1	0.19	<10	1.24	635	6	0.08	113	637	2325	1.10	244	3	64	<5	0.08	<10	<10	63	421	1411	4		

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95°C for 2 hours and diluted to 25ml.

Signed: _____ 

APPENDIX iii ANALYTICAL PROCEDURES



Assayers Canada Services Explained

Sample Preparation

Sample preparation procedures are normally fairly straightforward, and can be summarized as:

- If a sample is wet, it will normally need to be dried
- Large samples must be split, often several times, to provide a portion small enough to be handled by the analytical equipment. The size of the final sample is a function of the element being analysed and the analytical method being employed.
- The size of particles within the sample must be reduced so that the elements of interest can be properly liberated from the rest of the rock.

Sample Drying

At Assayers Canada, samples of rock, stream sediments and soils are all dried in an oven at about 60 degrees Celsius. It is possible to dry the samples more quickly (i.e. at a higher temperature), but certain volatile elements (notably Hg) can be lost at higher temperatures.

Sample Size and Particle Size Reduction

The optimum mix of crushing, pulverising and splitting samples to achieve a sample that is small enough and fine grained enough to be analysed, while still giving a fair representation of the element concentrations in the original sample, is a topic about which textbooks have been written, and is a much discussed problem. While the theory and mathematics of the discussion is too complex to be included in this web site, it is advisable that all geologists at least have a cursory understanding of the issues involved here, particularly if the project in question includes very coarse grained ore minerals.

In general, the coarser and less homogenous the distribution of the ore minerals, the finer a specimen should be crushed (or pulverised) before a portion of it is split off for analysis or further sample preparation. Ideally, the entire sample (say 10kg of drill core) would be pulverised to -150 mesh before splitting off a portion for analysis. The trouble with this is that it takes a long time to pulverise a large sample, and hence this would be a very costly solution to the problem.

At Assayers Canada, soil and stream sediment samples (where elements of interest are found in the fine fraction) are passed through an -80 mesh sieve, and the fine fraction is then split (if necessary) and pulverised.

Rock and drill core samples, on the other hand, are first crushed with a jaw crusher and the put through a secondary crusher so that it is 60% less than 10 mesh in size. The sample is then mixed, and a 250-gram sub sample split is taken. The sub sample is then pulverised in a ring pulverizer until 90% of the sample is less than 150 mesh, at which time it is ready for analysis.

Note that coarse gold does not pulverise well, but rather tends to become smeared along the plates of the pulverizer. If a sample is known to contain coarse gold, therefore, it should be sieved after it is pulverised to remove the coarse gold particles. The entire coarse fraction is then analysed, as is a split of the fine fraction. The two assays are then combined to give the total gold content of the original sample.

Assayers Canada Services Explained

Gold and Precious Metal Analysis by Fire Assay

Fire Assaying, a technique that has been around for centuries, is still the most generally accepted method of analysis for gold, and platinum group elements.

Though a number of variations are available (depending on the size of sample assayed and the method of final reading of the metal concentration), the basic technique in Fire Assaying for gold involves adding flux (which includes lead) and silver to the pulverised sample and fusing (melting) it. The extra silver acts as a collector of the gold, and, in very low-grade samples, ensures that at the end of the fusing there is enough precious metal to be easily handled.



At the end of the fusion process, the resultant molten material is poured into a metal mould and allowed to cool into a lead button (which contains the precious metals) at the bottom, overlain by silica glass slag. The slag is chipped off and discarded, and the lead button is subjected to a second process called cupellation, in which the precious metals are separated from the lead.

In cupellation the lead button (containing the gold) is placed into a small porous crucible called a cupel, and heated. The lead then becomes oxidised and is absorbed into the cupel, leaving a small silver/gold bead remaining in the cupel.

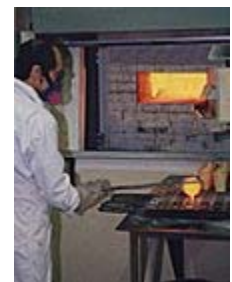


It now remains only to separate the silver from the gold. To do this, the bead is placed in a test tube and nitric acid is added, which, when the test tube is put in a hot water bath, dissolves the silver, leaving a small particle of pure gold.

If the particle of gold is large enough, it is usually weighed to determine the original grade of the sample. This is called a gravimetric finish to the fire assay. For lower grade samples with very small and difficult to handle gold particles the gold is dissolved in hydrochloric acid and the gold concentration is measured using AAS.

While Fire Assaying is normally done on a 1 Assay Tonne (roughly 30 gram) split of the pulverised material, a slight cost saving is to be found in selecting a smaller (15-gram) sample size. On the other hand, high-grade samples, for which there must be a gravimetric finish, are slightly more expensive than those that are read on the AAS.

In the analysis of platinum group elements, roughly the same procedure is followed, but the final element readings are normally done using ICP.



Assayers Canada Services Explained

Other Options for Gold Analysis

1. Cyanide Leaching

This method is often used for very sensitive analysis of bulk stream sediments or soils.

The entire sample is put into a cyanide solution and agitated for up to 24 hours, and the free gold in the sample is thus dissolved. The solution is then read on an AAS to determine the gold concentration of the original sample.

This method has the advantage of being able to detect small amounts of gold in large samples, and no additional sample preparation errors are introduced, since the entire sample is leached.

The disadvantage is mainly that the gold must be leachable by cyanide. Thus, it would not be effective in a situation where the gold is tied up in a pyrite matrix, as is the case in refractory ores. For this reason, it is normally recommended only for alluvial or well-oxidized samples.

2. Aqua Regia MIBK

This method is sometimes favoured over fire assay because there is a slight cost saving.

After normal sample preparation, a 10-gram split of the sample is dissolved in Aqua Regia. The gold is liberated from the other constituents of the solution with the addition of Methyl-isobutylketone (MIBK) and then read on the AAS.

While being a little bit less expensive than Fire Assaying, this method is not really recommended for gold analysis, because it is not effective in detecting refractory gold, and MIBK is a highly toxic chemical which raises difficult and largely unnecessary safety and environmental issues.

Assayers Canada Services Explained

Trace Level Geochemistry

There are three basic options available for analysing exploration samples for geochemical levels of most elements normally of interest to the exploration geologist. Geochemical samples (i.e. those not *normally* expected to have ore grade concentrations of critical elements) can be analysed either individually by a variety of traditional wet chemical techniques, or by multi-element ICP, or by Neutron Activation Analysis.

1. Traditional Wet Geochemistry

A wide variety of techniques are employed in traditional geochemical analysis, depending on the element being analysed.

Traditional geochemical analysis basically involves getting a sample into solution, and then using an appropriate method to read the element concentration in the solution. The sample is put into solution by dissolution with mineral acids. Depending on the element being analysed a fusion process may precede this. The type of acid used in the dissolving process is again dependent on the element being assayed. The solutions are then read by AAS, ICP or occasionally some other method.

2. ICP-AES Multi-Element Analysis

The sample is put into a test tube and treated with either Aqua Regia or a cocktail consisting of nitric-perchloric-hydrofluoric-hydrochloric acids, depending on the elements and the detection limits desired.

The beauty of ICP-AES multi-element analysis is the wide range of elements that can be read simultaneously. It is important, however, to be aware of the limitations of the method, the most serious being the fact that, depending on the sample mineralogy, not all elements that are analysed by ICP will invariably dissolve in the Aqua Regia or multi-acid digests. Thus, there is a chance that ICP will underestimate the concentrations of these elements. Another serious limitation to ICP is the fact that there can be interference between different elements. That is, the wavelength of one element's light emission will be close enough to that of another element to cause problems in reading the elements. This is particularly true if one of the elements has a very high concentration.



For the above reasons, ICP is not recommended for analyses that will be used in ore reserve calculations.

3. Instrumental Neutron Activation Analysis (INAA)

INAA has the very real advantage of not requiring the sample to be in solution (thus removing one step in the process, and eliminating any errors associated with that step), and of being able to measure many different elements, including gold, simultaneously.

One disadvantage of INAA is that many elements of interest (including copper and lead) cannot be analysed by the technique. Another disadvantage is the fact that this method requires a nuclear reactor, and there are few of these readily available in Canada.

The sample is prepared as normal and put into vials, which are then put into the reactor. Detection limits can be improved by using larger samples. This method is particularly good for analysis of panned concentrate samples, as it gives gold plus up to 34 different elements from one sample. Using a traditional fire assay (where, for panned concentrates, the entire sample is usually analysed), you can get only the concentration of gold in the sample.

Since Assayers Canada does not have direct access to a nuclear reactor, requests for INAA analysis are contracted out.

COMPARISON OF DIFFERENT TRACE ELEMENT ANALYSIS METHODS

Element	Geochem	ICP AR	ICP MAD	INAA
	(Range)	(Range)	(Range)	(DL)
Antimony	0.2-1000	5-10000	---	0.2
Aluminum	---	0.01-15%*	0.01-15%*	---
Arsenic	1-10000	5-10000	---	2
Barium	5-10000	10-10000*	10-10000*	100
Beryllium	2-1000	5-100*	0.5-100	---
Bismuth	0.1-1000	5-10000	5-10000	---
Boron	1-10000	---	---	---
Bromine	---	---	---	1
Calcium	---	0.01-15%*	0.01-15%	1%
Cadmium	0.1-200	1-100	1-100	---
Cerium	---	---	---	3
Cesium	---	---	---	2
Chlorine	---	---	---	100
Chromium	1-10000	1-10000*	1-10000	10
Cobalt	1-10000	1-10000	1-10000	5
Copper	1-10000	1-10000	1-10000	---
Copper Oxide	1-10000	---	---	---
Europium	---	---	---	0.2
Fluorine	10-10000	---	---	---
Gallium	5-10000 (ICP)	---	---	---
Germanium	5-1000 (ICP)	---	---	---
Gold	---	---	---	5 ppb
Hafnium	---	---	---	1
Iridium	---	---	---	5 ppb
Iron	10-10000	0.01-15%*	0.01-15%	0.02%

Lanthanum	---	---	---	1
Lead	1-10000	2-10000	2-10000	---
Lutetium	---	---	---	0.05
Magnesium	---	0.01-15%*	0.01-15%*	---
Manganese	5-10000	5-10000*	5-10000*	---
Mercury	5-50000 ppb	---	---	1
Molybdenum	1-1000	2-10000	2-10000	5
Neodymium	---	---	---	5
Nickel	1-10000	1-10000	1-10000	50
Niobium	10-10000 (ICP)	---	---	---
Phosphorous	10-10000 (ICP)	10-10000*	10-10000	---
Potassium	---	0.01-10%*	0.01-10%	---
Rubidium	---	---	---	30
Samarium	---	---	---	0.1
Scandium	---	1-10000	---	0.1
Selenium	1-100	---	---	5
Silver	0.1-200	0.2-200	0.2-200	5
Sodium	---	0.01-5%*	0.01-5%	0.05%
Strontium	1-10000 (ICP)	1-10000*	1-10000	0.05%
Tantalum	---	---	---	1
Tellurium	2-100	---	---	---
Terbium	---	---	---	0.5
Thallium	5-10000 ppb	---	---	---
Thorium	2-10000 (ICP)	---	---	0.5
Tin	2-1000	10-1000*	---	0.01%
Titanium	---	0.01-10*	0.01-10%	---
Tungsten	5-1000	10-10000*	10-10000	4
Uranium	---	---	---	0.5
Vanadium	5-10000	1-10000	1-10000	---
Ytterbium	---	---	---	0.2
Yttrium	---	1-10000	---	---
Zinc	1-10000	1-10000	1-10000	50
Zirconium	---	1-10000*	---	---

* Elements thus marked may not dissolve completely, or may experience some losses

Assayers Canada Services Explained

Ore Grade Analysis

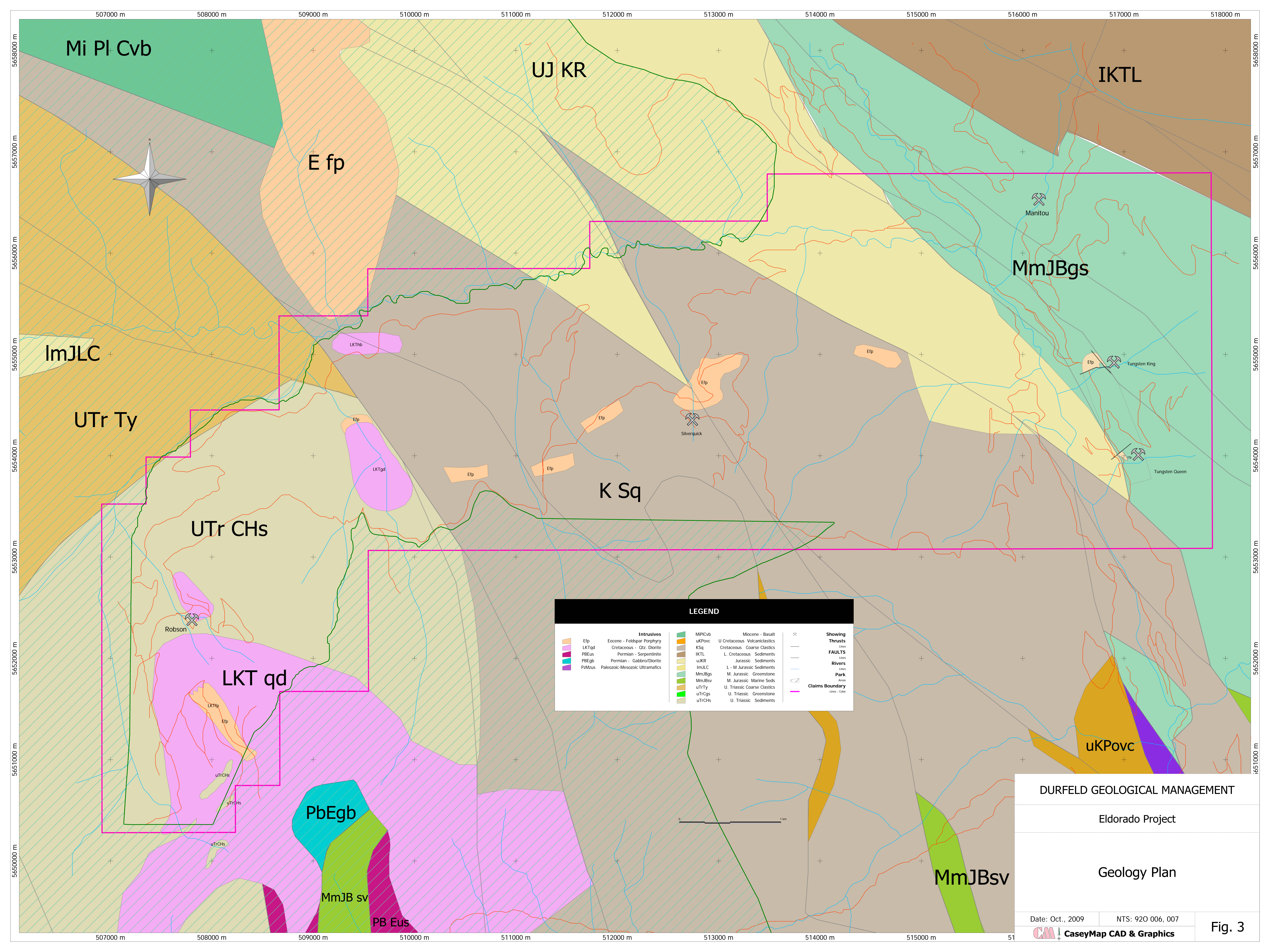
The above techniques, subject to the limitations mentioned, give reasonably reliable analytical results in the detection ranges indicated. For higher grade samples, and in situations where additional confidence is required in the results (to be reported to the stock exchange, for example) traditional wet chemical techniques are recommended.

For trace level geochemical analyses, the recipe of getting the samples into solution which can be read by the instruments is standard, and does not make allowances for variations in the rock matrix or for the concentration of the element being analysed. As such, if the minerals present in the sample are not those usually encountered not all of it may dissolve, and the analysis may then be on the low side for certain elements. High grade samples, when put into solution using a standard trace level recipe, may result in solutions which have greater concentrations of the elements of interest than the instrument can reliably read. In this case, they would be reported simply as "greater than the maximum value for the technique".

Depending on which elements are being analysed, the methods for ore grade analysis may not differ greatly from those for trace elements. If an ore grade analysis is requested, however, the sample is dissolved using solvents that more vigorously attack it, (thus ensuring that all of that element is in solution) and the solution is then diluted so that concentration of the element is within the range of the instrument on which it will be read.

This attention to detail results in the higher cost of the ore grade analysis.





LEGEND			
	Efp	Eocene - Feldspar Porphyry	
	LKTqd	Cretaceous - Qtz. Diorite	
	PBEus	Permian - Serpentine	
	PBEgb	Permian - Gabbro/Diorite	
	PzMus	Paleozoic-Mesozoic Ultramafics	
	MiPICvb	Miocene - Basalt	
	uKPovc	U. Cretaceous Volcaniclastics	
	KSq	Cretaceous Coarse Clastics	
	IKTL	L. Cretaceous Sediments	
	uJKR	Jurassic Sediments	
	ImJLC	L - M Jurassic Sediments	
	MmJBgs	M. Jurassic Greenstone	
	MmJBsv	M. Jurassic Marine Seds	
	uTrTy	U. Triassic Coarse Clastics	
	uTrCgs	U. Triassic Greenstone	
	uTrCHs	U. Triassic Sediments	
	Showing		
	Thrusts		
	FAULTS		
	Rivers		
	Park		
	Claims Boundary		

DURFELD GEOLOGICAL MANAGEMENT

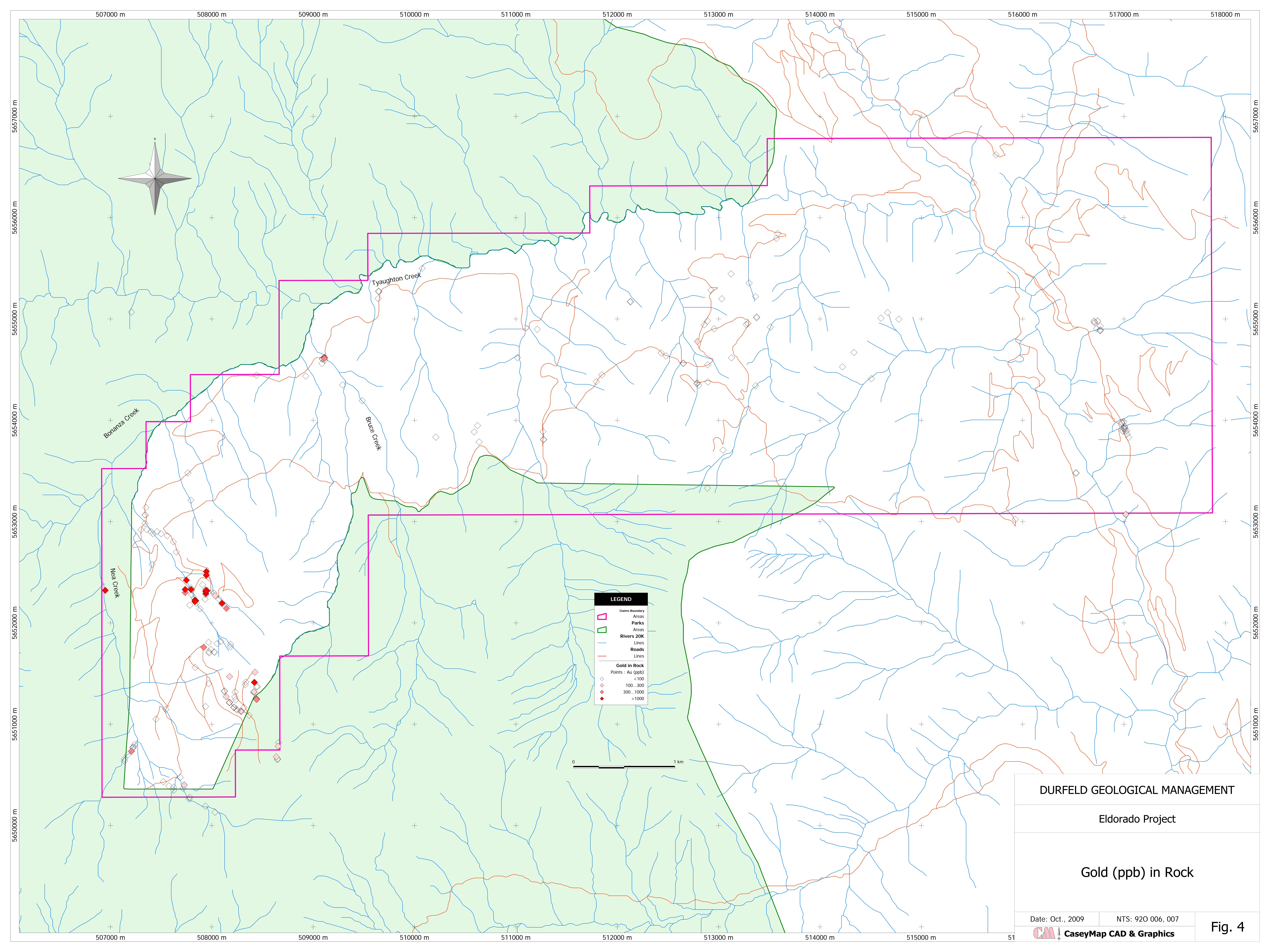
Eldorado Project

Geology Plan

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 3



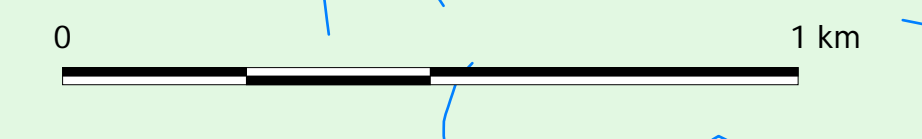
LEGEND

- Claims Boundary
- Parks Areas
- Rivers 20K
- Roads

Gold in Rock

Points : Au (ppb)

- <100
- 100...300
- 300...1000
- >1000



DURFELD GEOLOGICAL MANAGEMENT

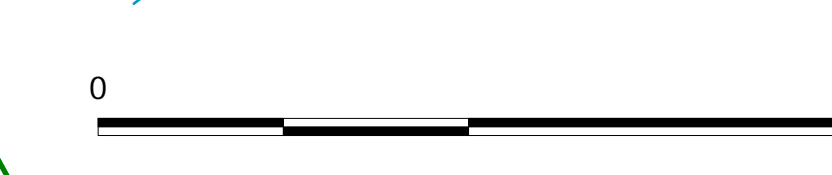
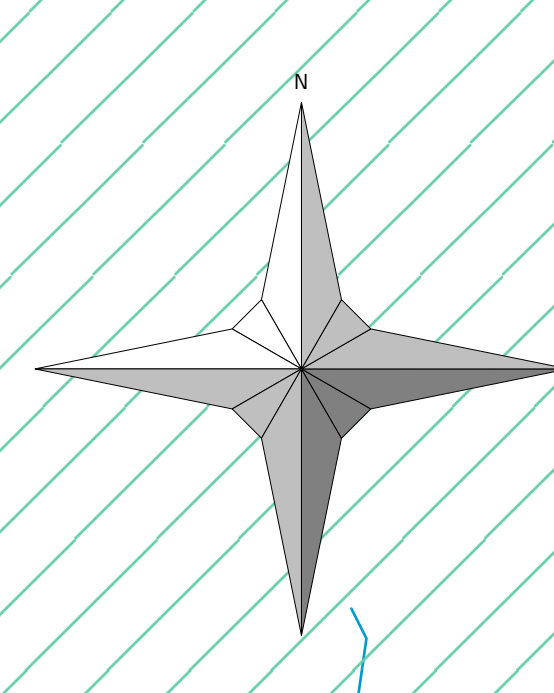
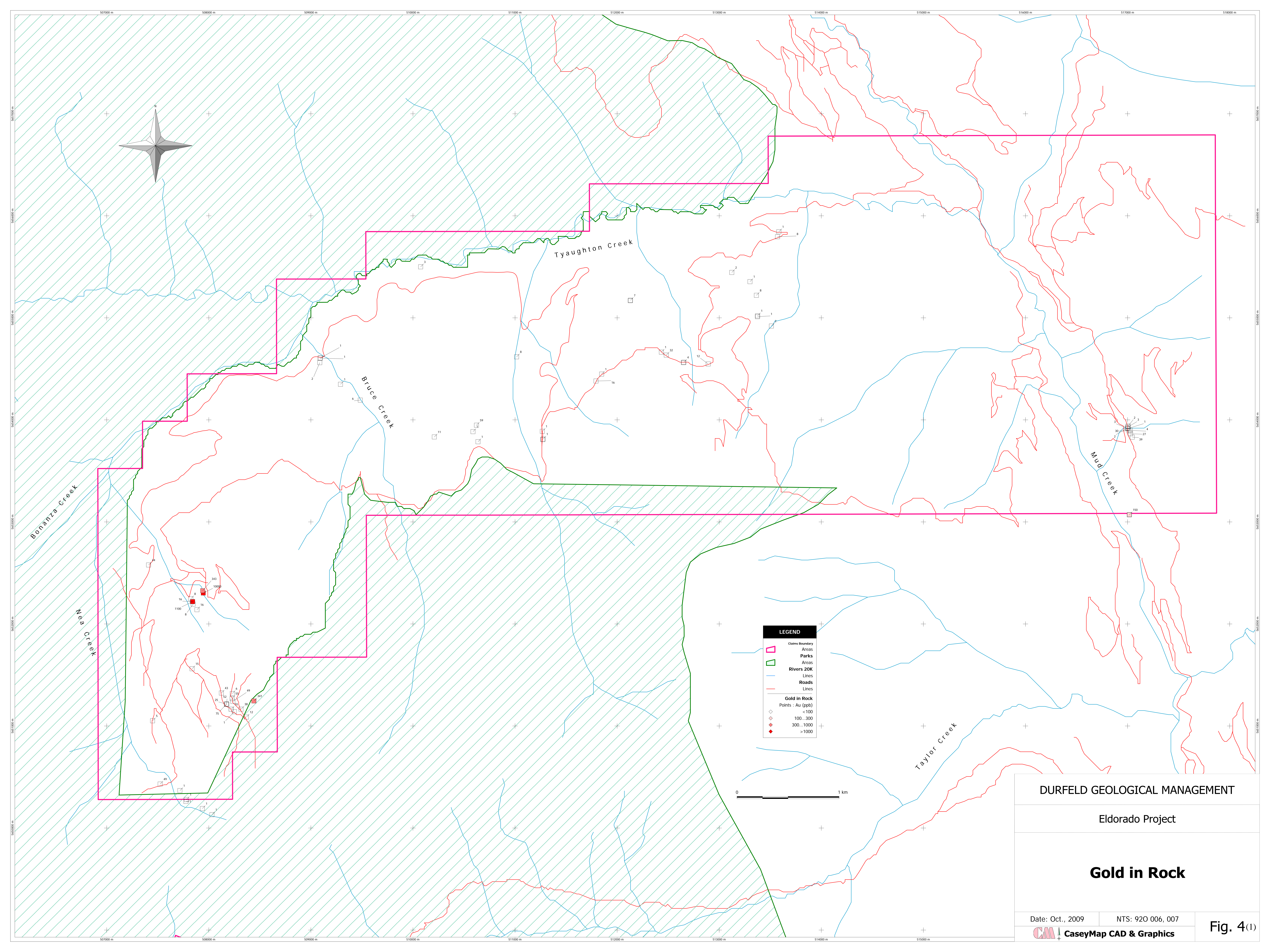
Eldorado Project

Gold (ppb) in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 4



LEGEND

- Claims Boundary
- Areas
- Parks
- Areas
- Rivers 20K
- Lines
- Roads
- Lines

Gold in Rock

Points : Au (ppb)

- <100
- 100...300
- 300...1000
- >1000

DURFELD GEOLOGICAL MANAGEMENT

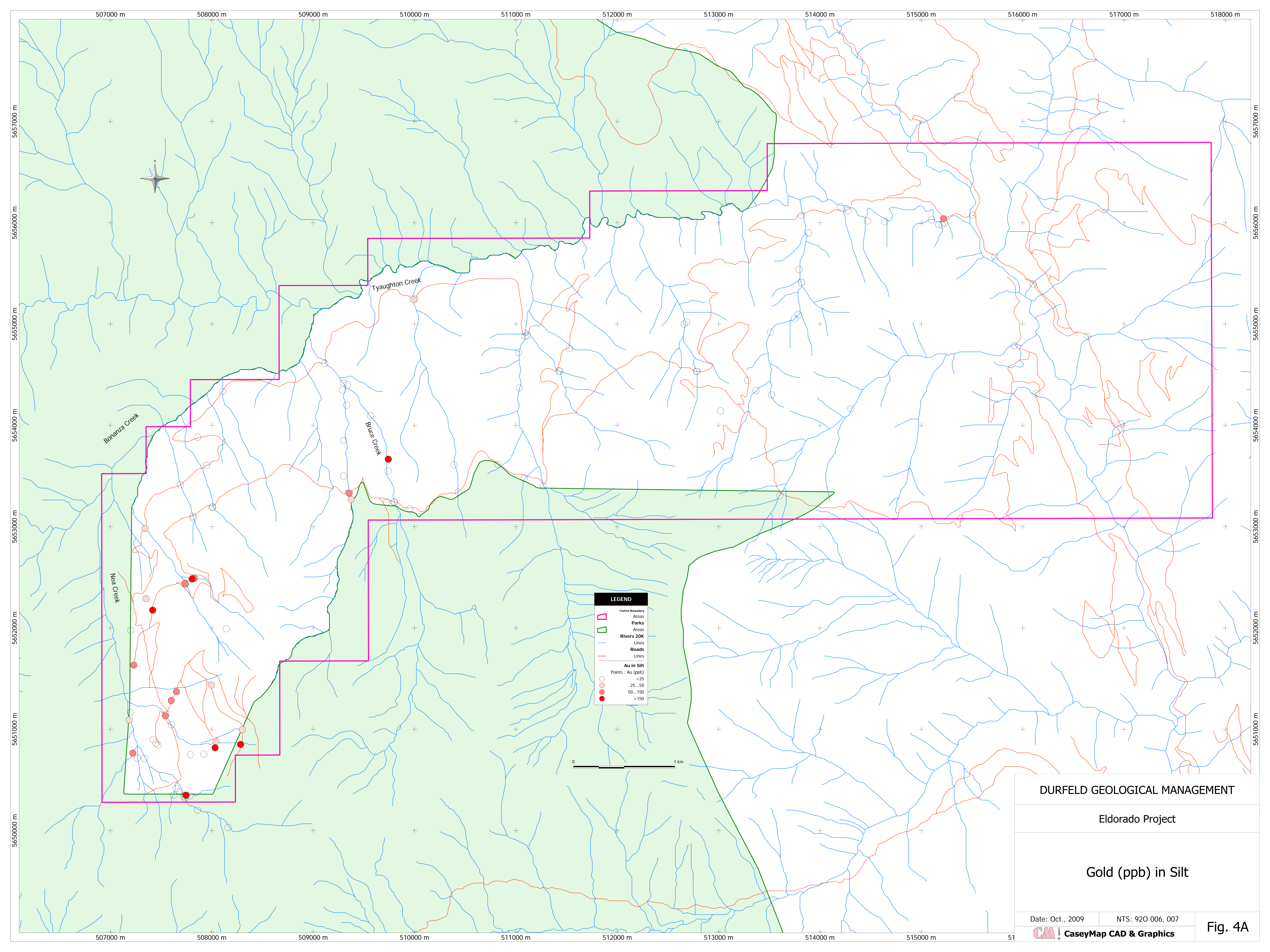
Eldorado Project

Gold in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 4(1)



DURFELD GEOLOGICAL MANAGEMENT

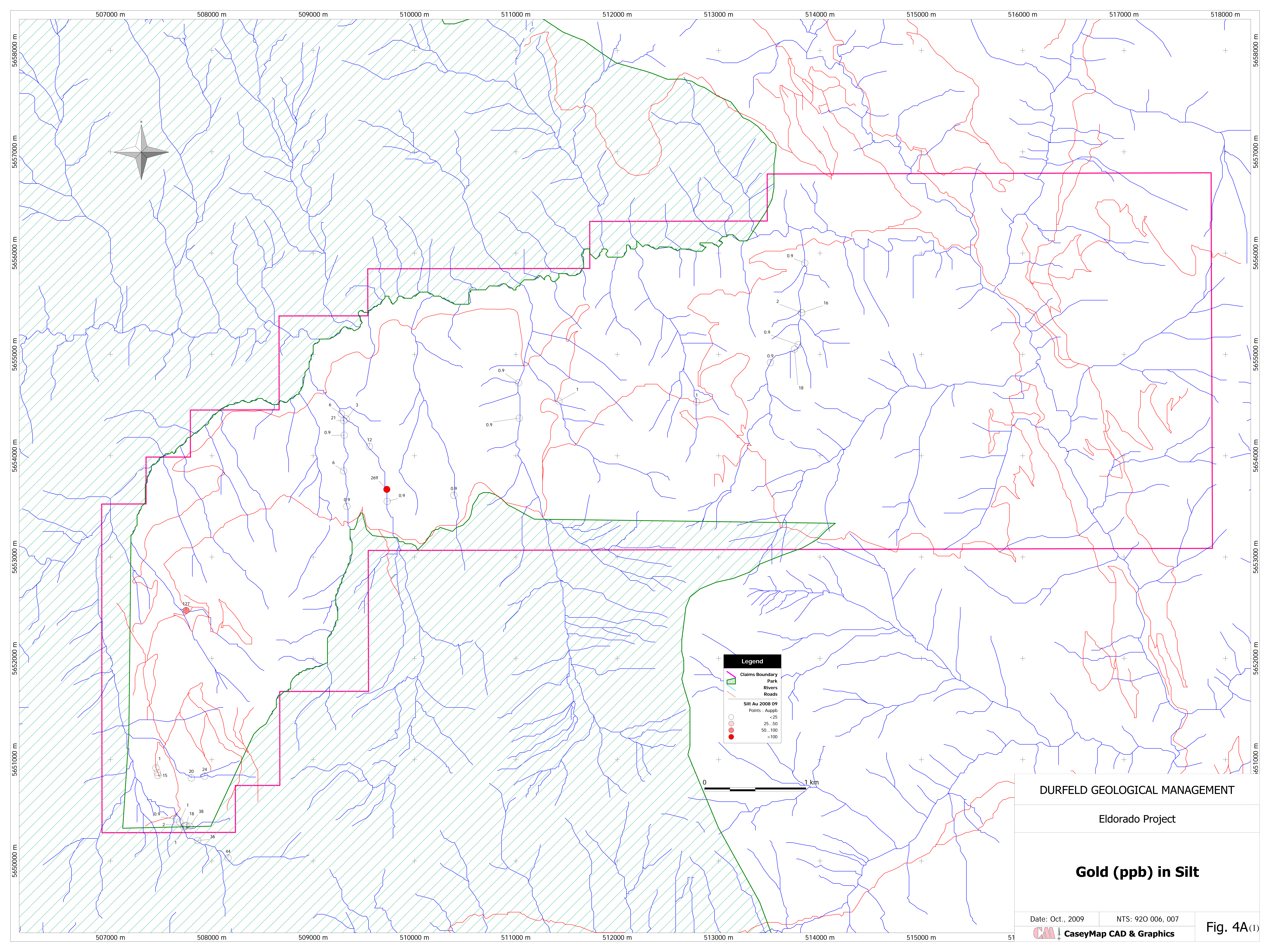
Eldorado Project

Gold (ppb) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 4A



DURFELD GEOLOGICAL MANAGEMENT

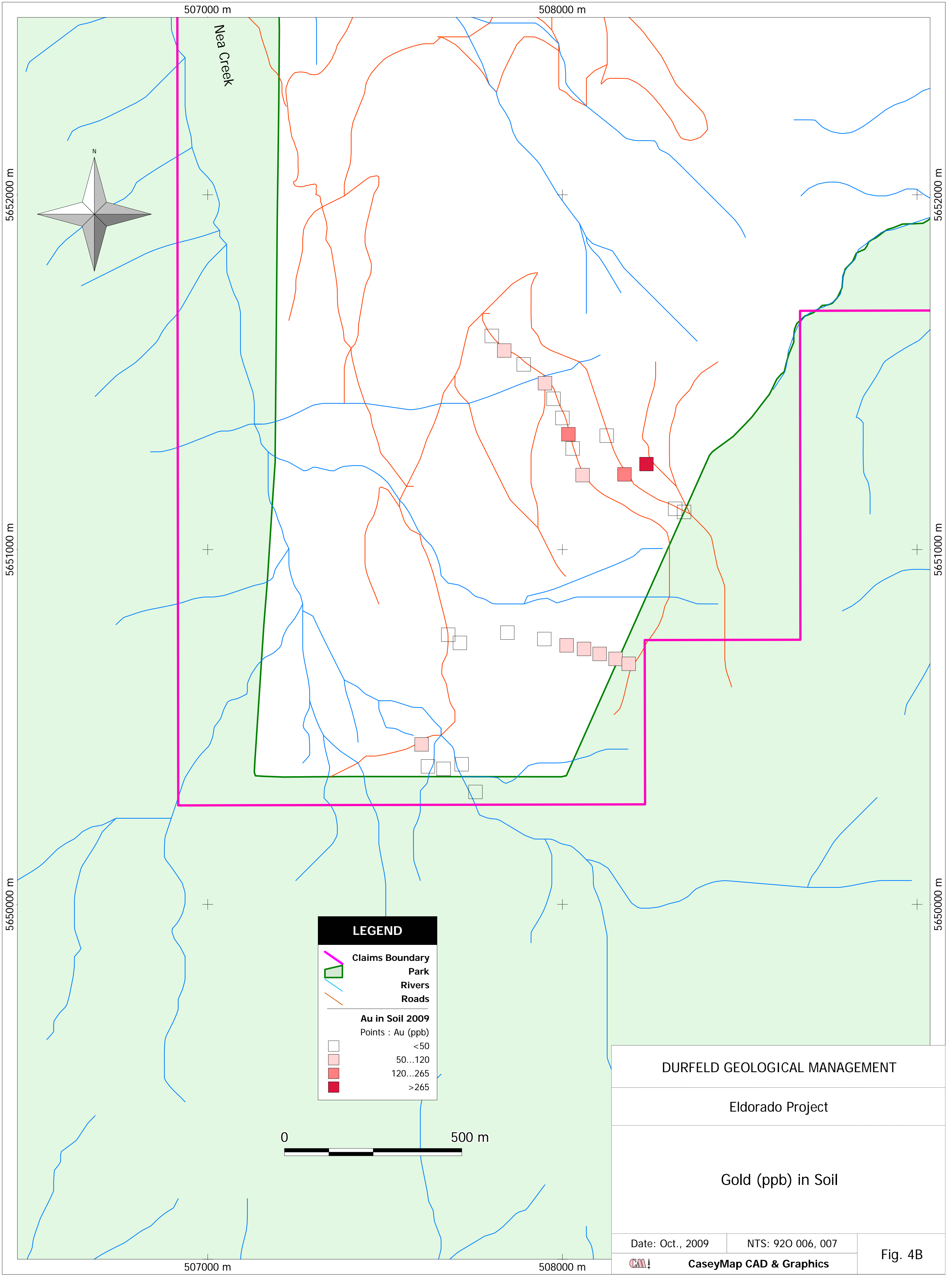
Eldorado Project

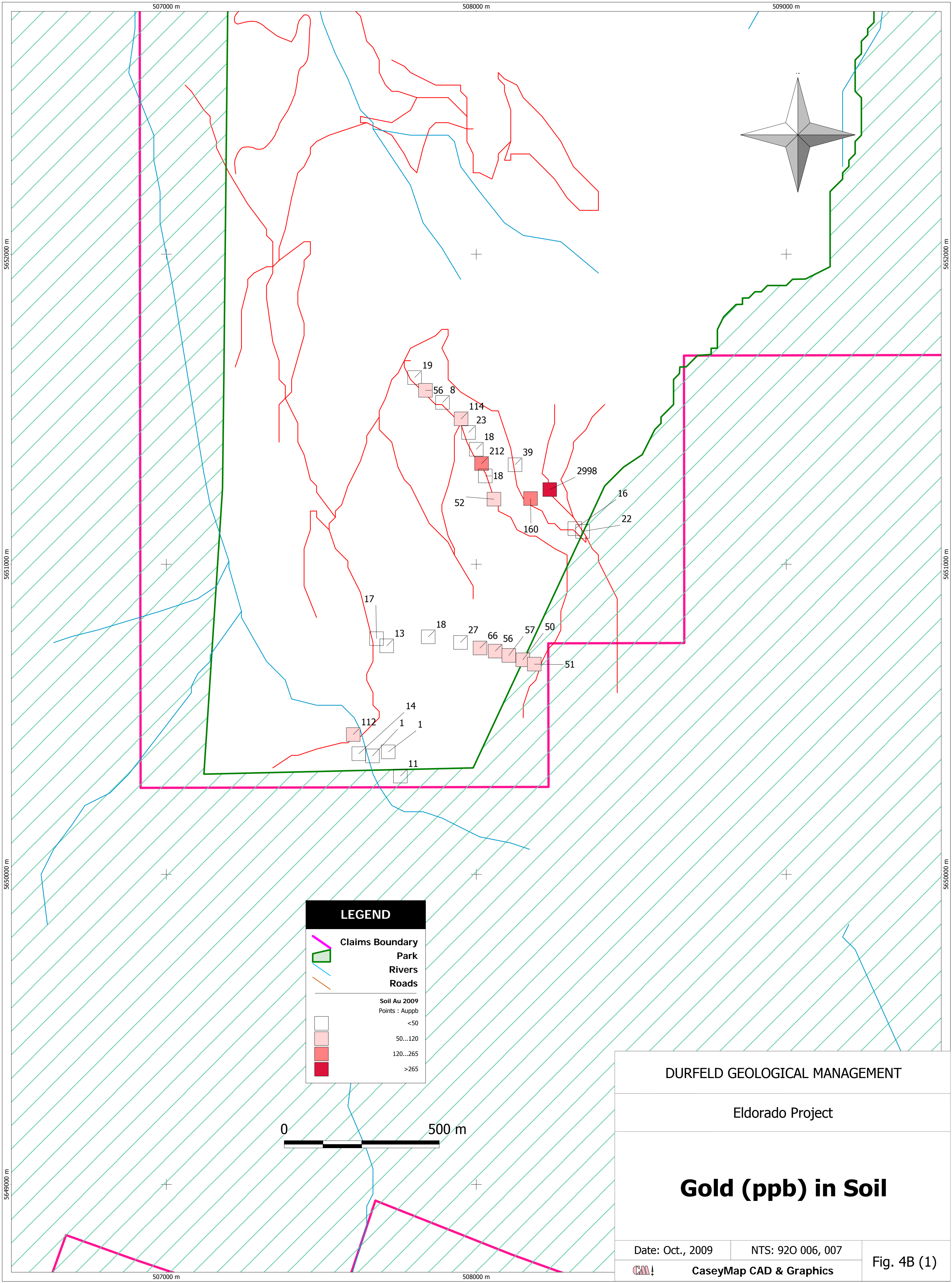
Gold (ppb) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 4A(1)





LEGEND

- Claims Boundary
- Park
- Rivers
- Roads

Soil Au 2009
Points : Auppb

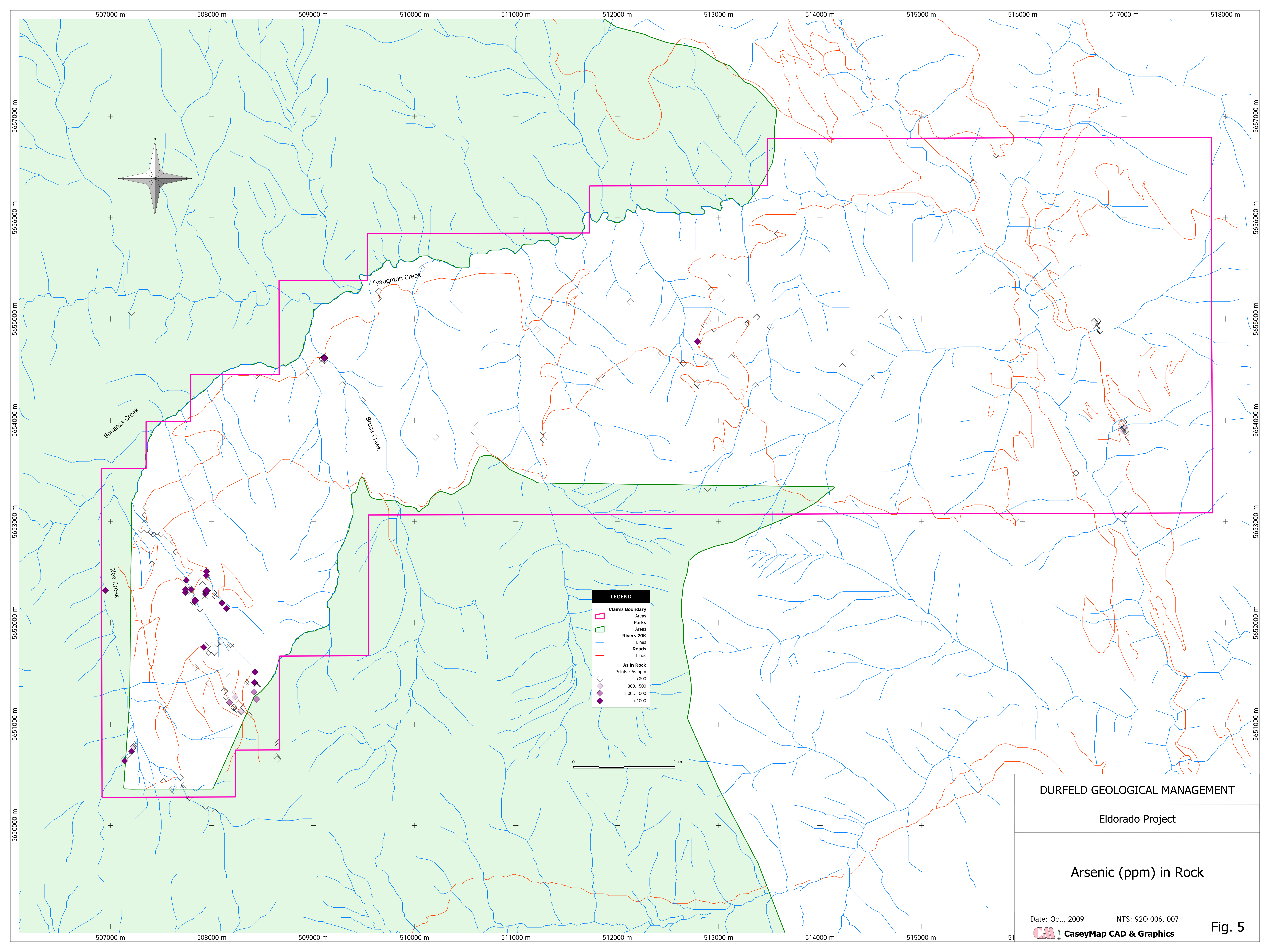
[White square]	<50
[Light pink square]	50...120
[Red square]	120...265
[Dark red square]	>265

DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

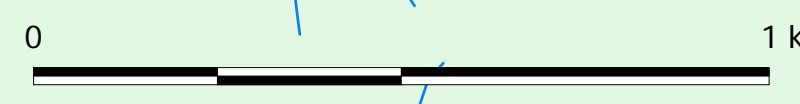
Gold (ppb) in Soil

Date: Oct., 2009	NTS: 920 006, 007
CaseyMap CAD & Graphics	Fig. 4B (1)



LEGEND

- Claims Boundary
- Areas
- Parks
- Areas
- Rivers 20K
- Lines
- Roads
- Lines
- As in Rock
- Points : As ppm
- <300
- 300...500
- 500...1000
- >1000



DURFELD GEOLOGICAL MANAGEMENT

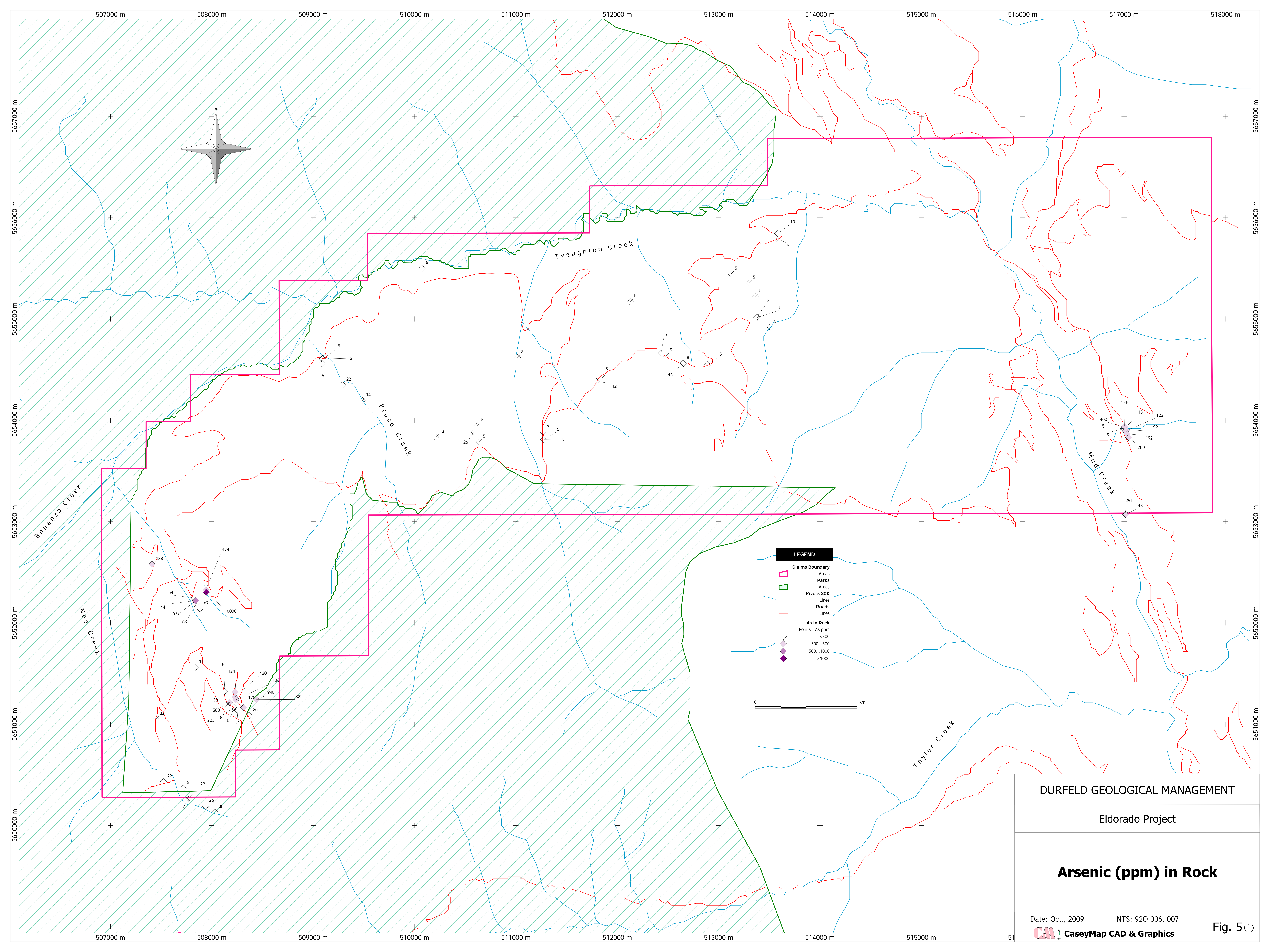
Eldorado Project

Arsenic (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 5




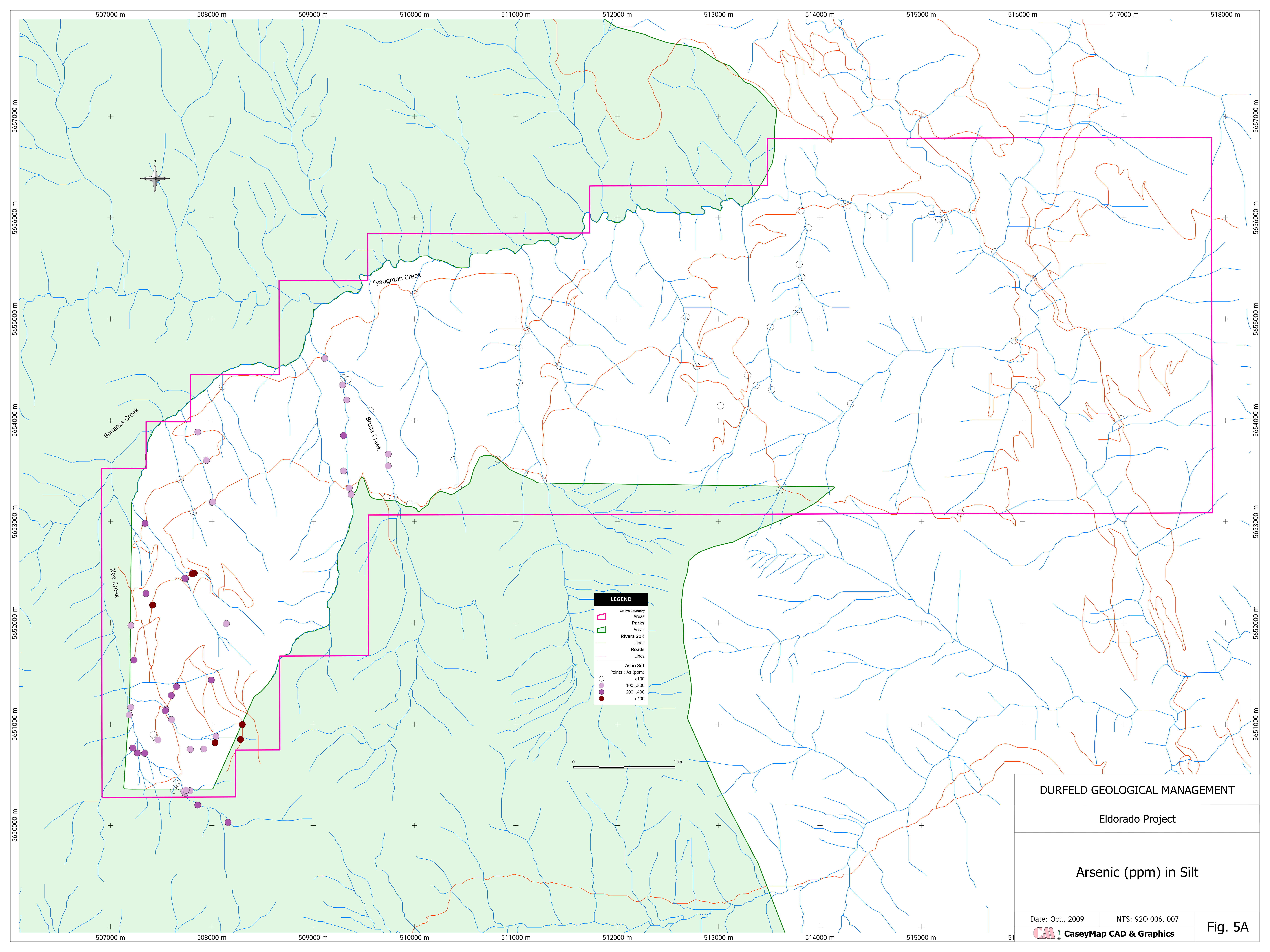
DURFELD GEOLOGICAL MANAGEMENT	
Eldorado Project	
Arsenic (ppm) in Rock	
Date: Oct., 2009	NTS: 920 006, 007
 CaseyMap CAD & Graphics	

Fig. 5 (1)



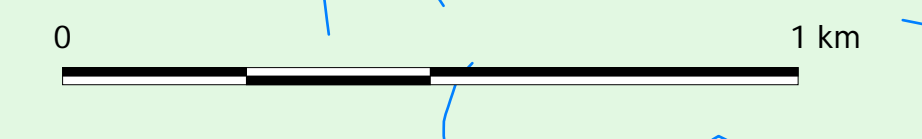
LEGEND

- Claims Boundary
- Areas
- Parks
- Rivers 20K
- Roads

As in Silt

Points : As (ppm)

- <100
- 100...200
- 200...400
- >400



DURFELD GEOLOGICAL MANAGEMENT

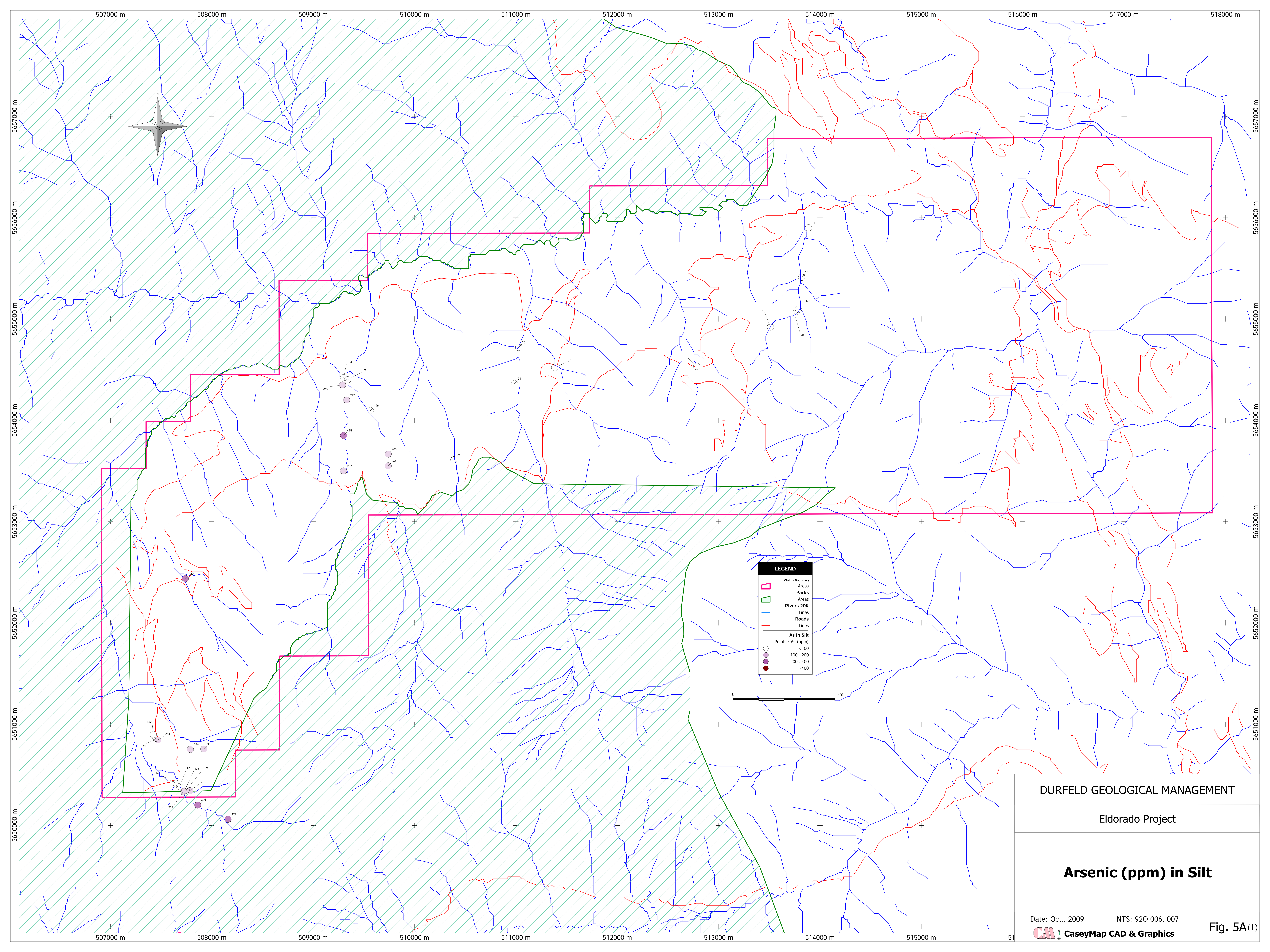
Eldorado Project

Arsenic (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 5A



DURFELD GEOLOGICAL MANAGEMENT

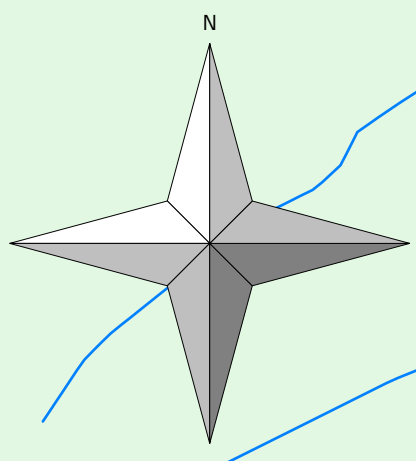
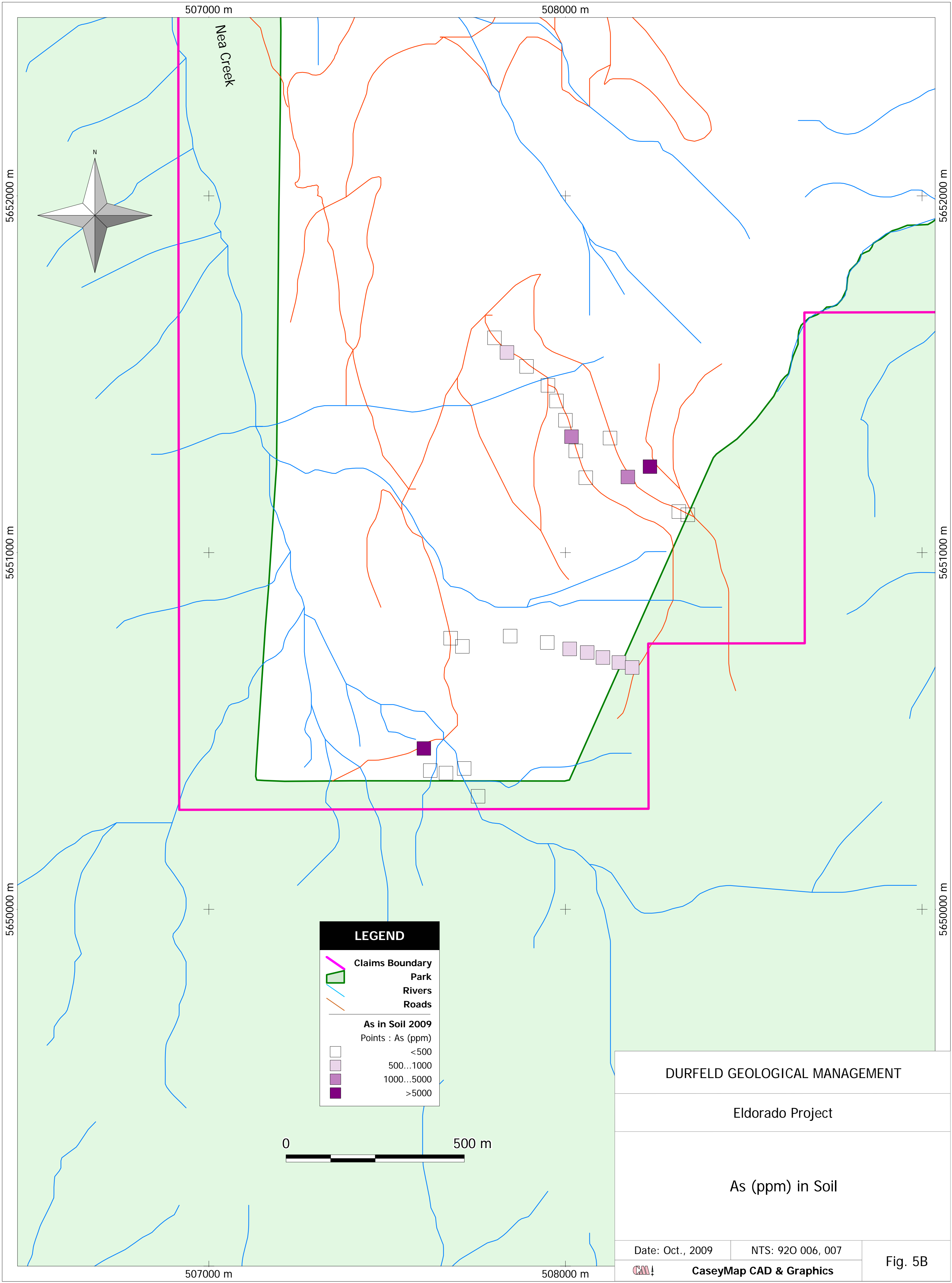
Eldorado Project

Arsenic (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 5A(1)

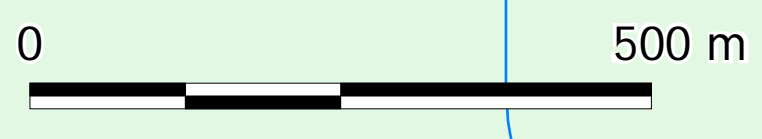


LEGEND

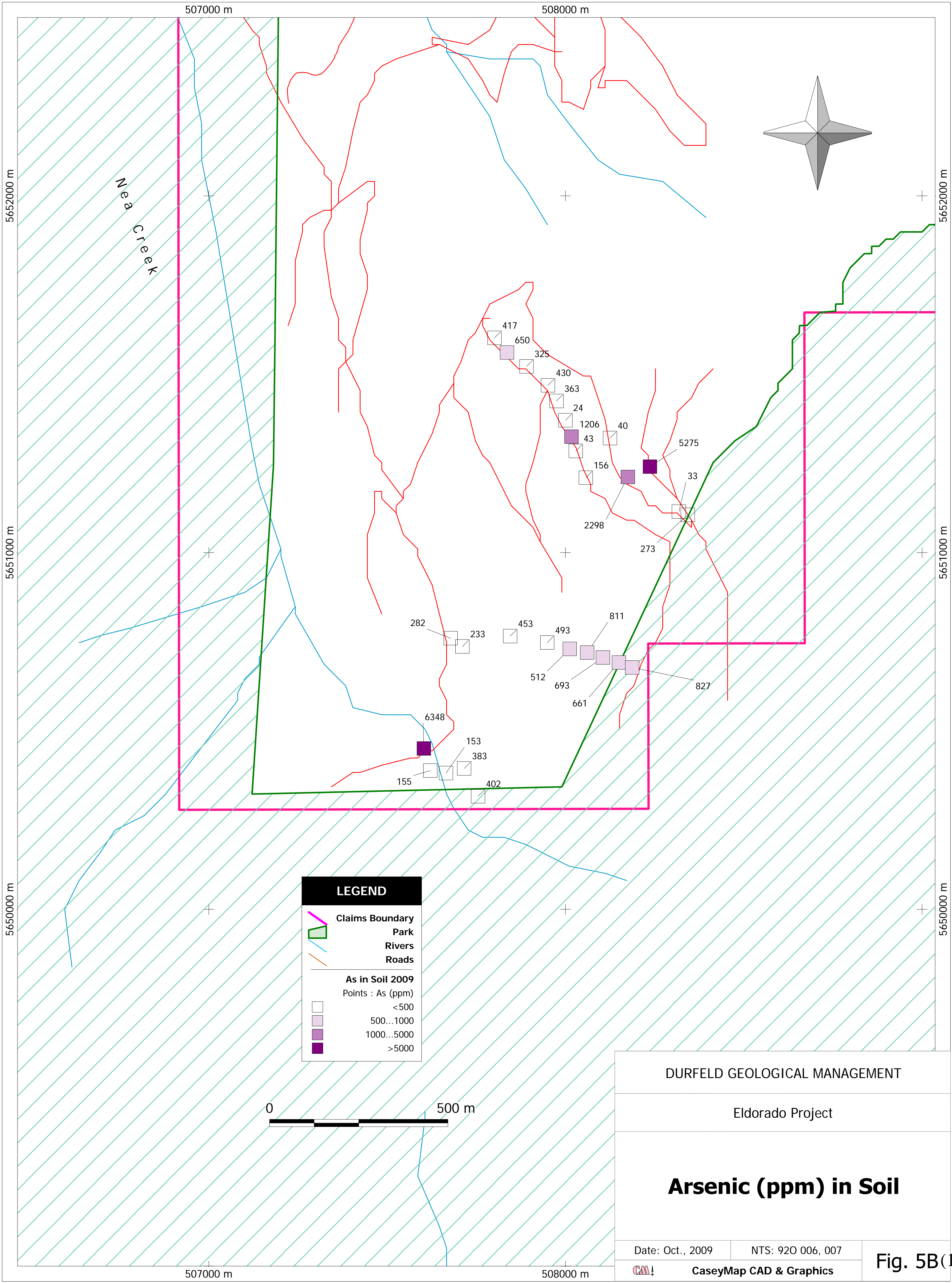
- Claims Boundary
- Park
- Rivers
- Roads

As in Soil 2009
Points : As (ppm)

- <500
- 500...1000
- 1000...5000
- >5000



DURFELD GEOLOGICAL MANAGEMENT		
Eldorado Project		
As (ppm) in Soil		
Date: Oct., 2009	NTS: 920 006, 007	
	CaseyMap CAD & Graphics	
		Fig. 5B



DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Arsenic (ppm) in Soil

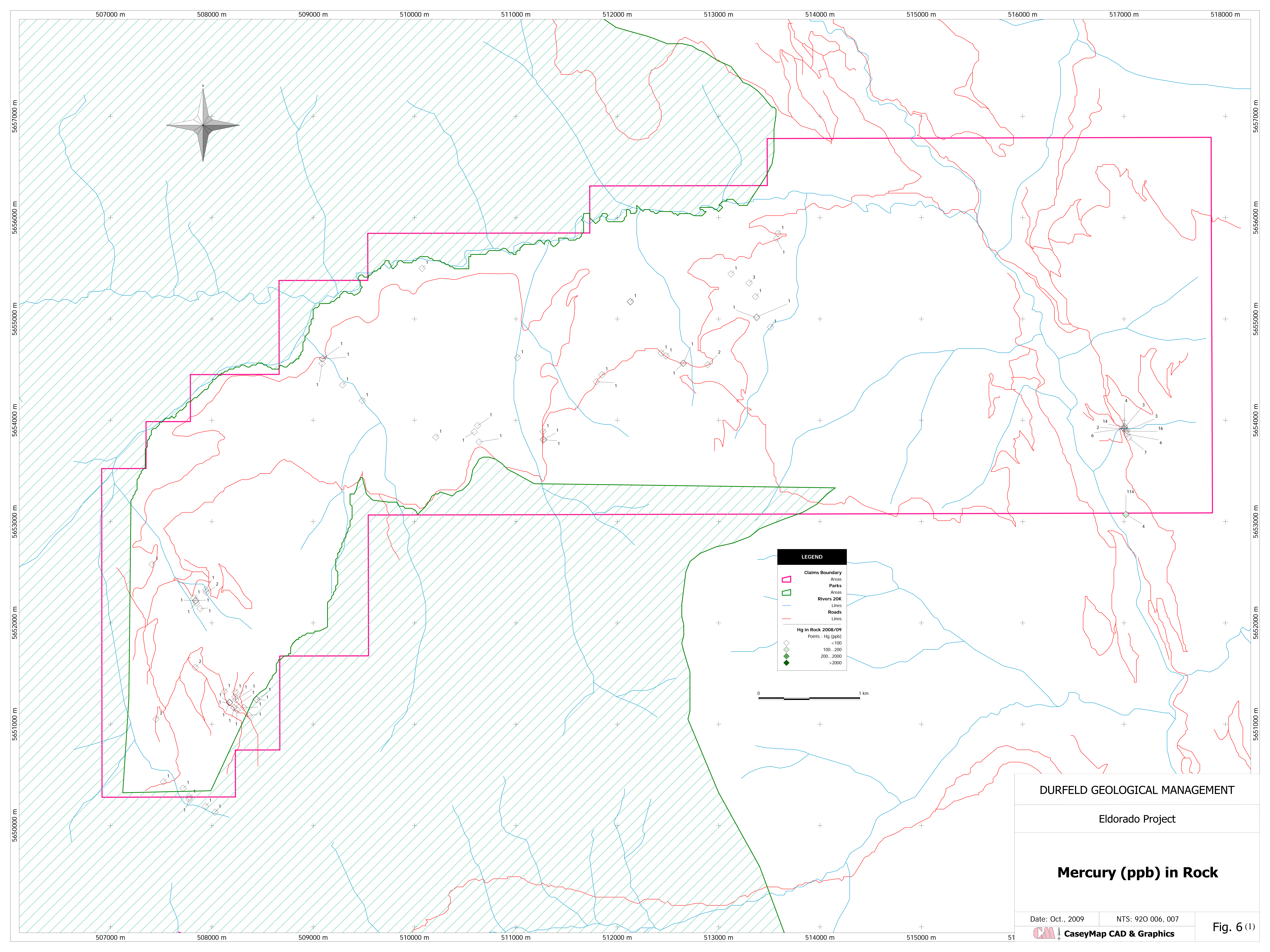
Date: Oct., 2009

NTS: 920 006, 007



CaseyMap CAD & Graphics

Fig. 5B(1)



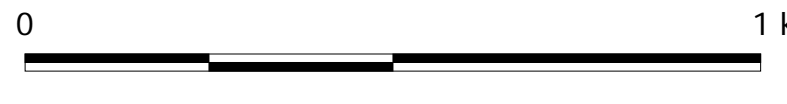
LEGEND

- Claims Boundary
- Parks Areas
- Rivers 20K
- Roads Lines

Hg in Rock 2008/09

Points : Hg (ppb)

- <100
- 100...200
- 200...2000
- >2000



DURFELD GEOLOGICAL MANAGEMENT

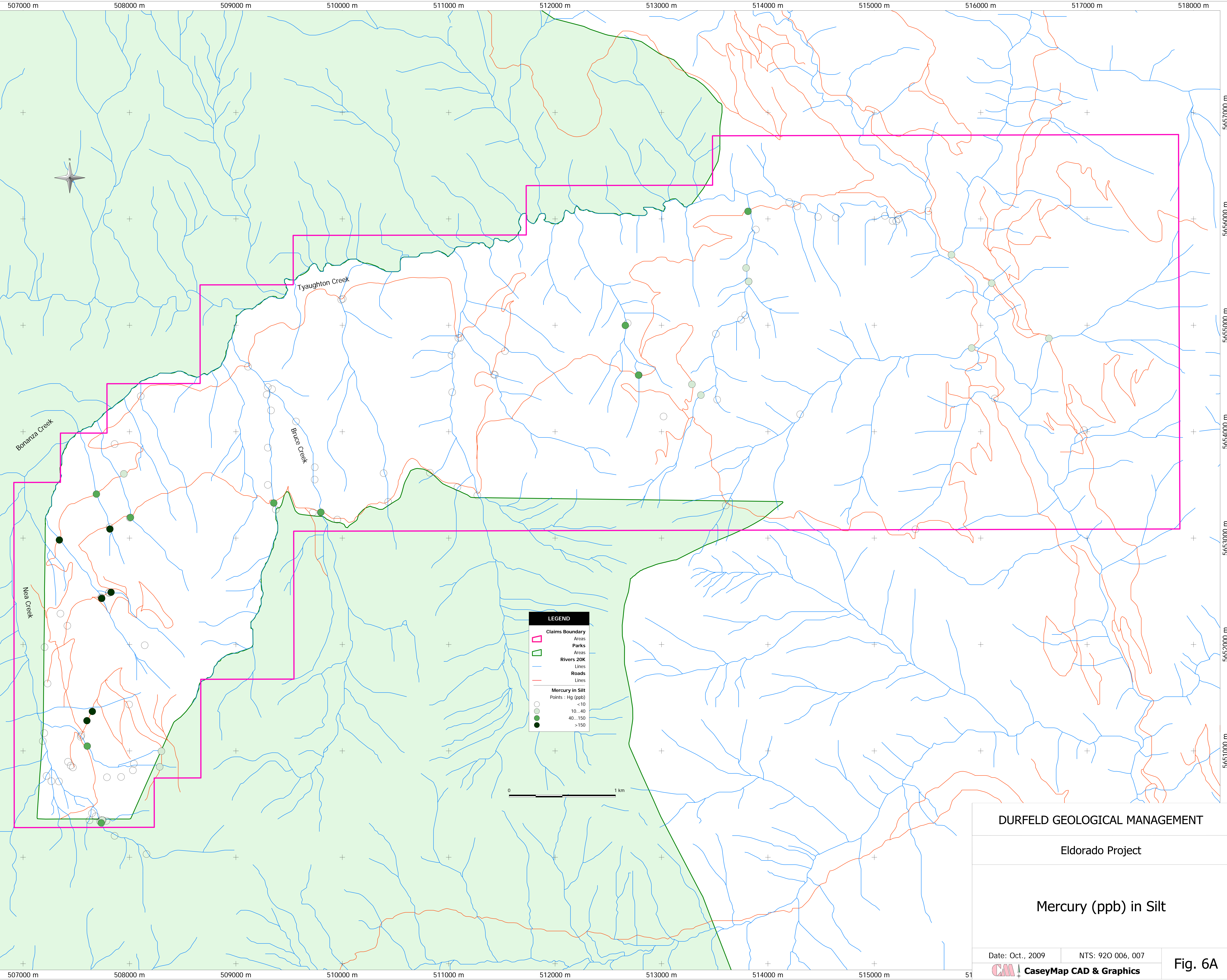
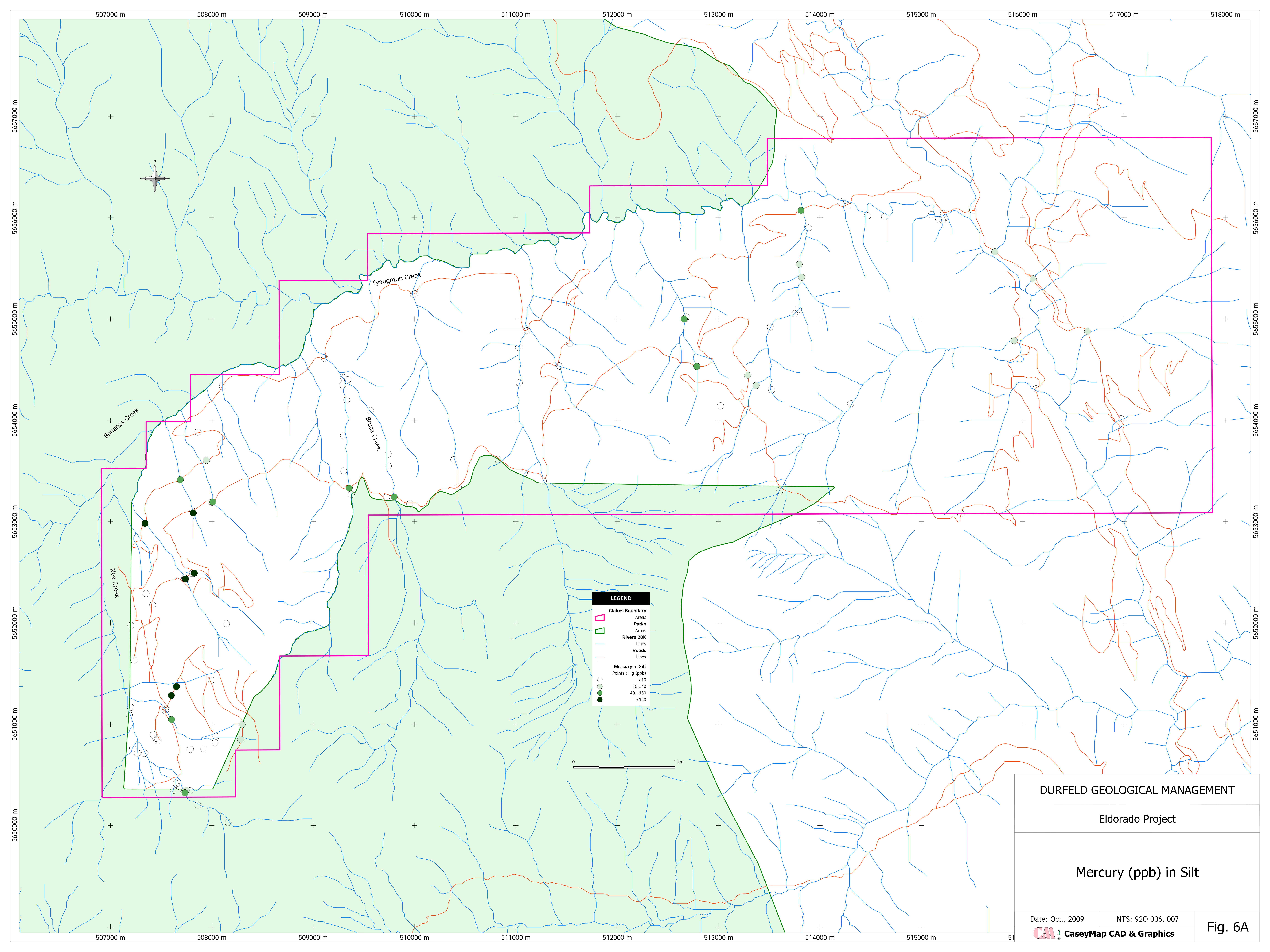
Eldorado Project

Mercury (ppb) in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 6 (1)



LEGEND

- Claims Boundary
- Parks Areas
- Rivers 20K
- Roads
- Mercury in Silt
- Points - Hg (ppb)
- <10
- 10...40
- 40...150
- >150

DURFELD GEOLOGICAL MANAGEMENT

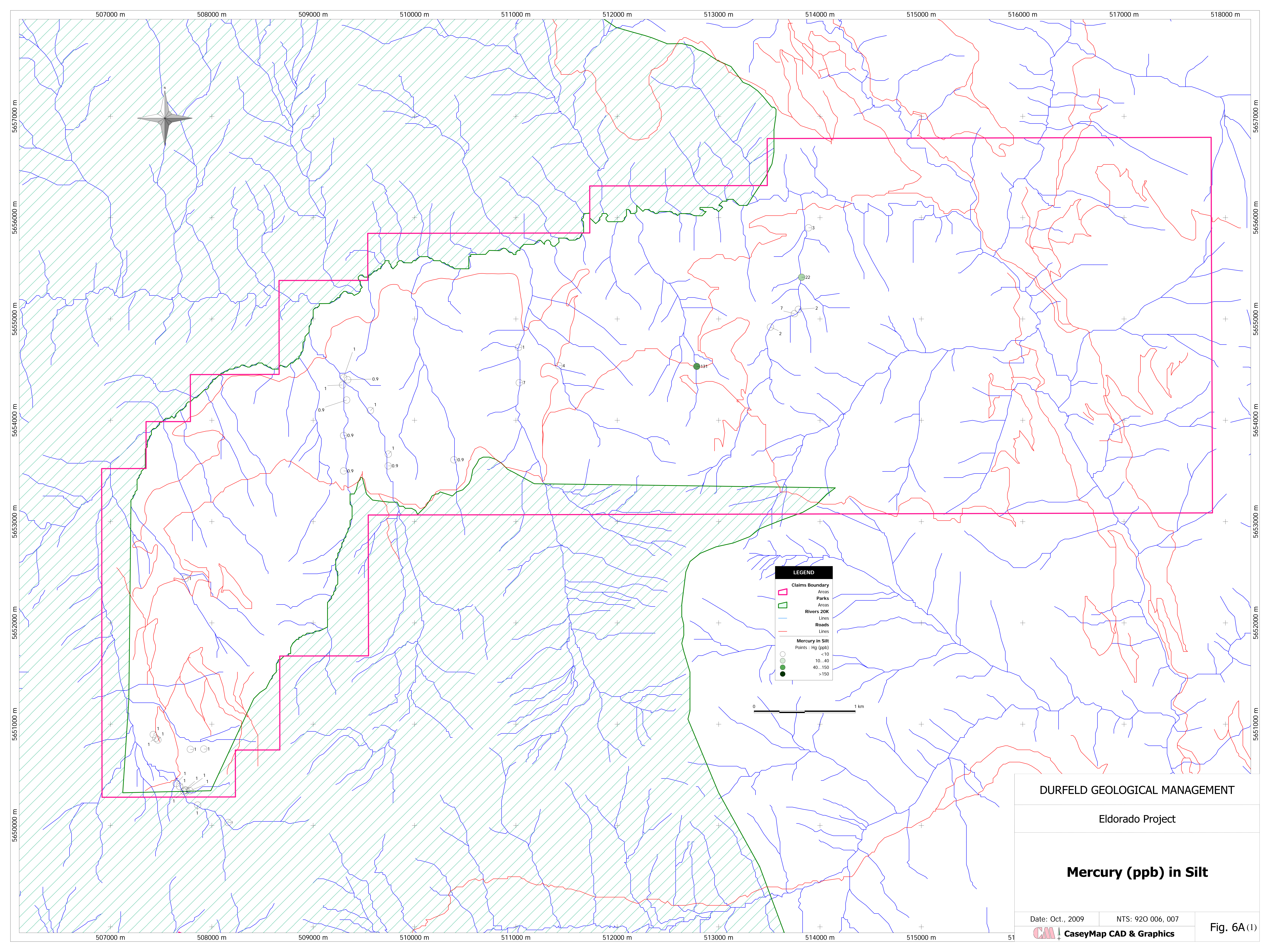
Eldorado Project

Mercury (ppb) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 6A



DURFELD GEOLOGICAL MANAGEMENT

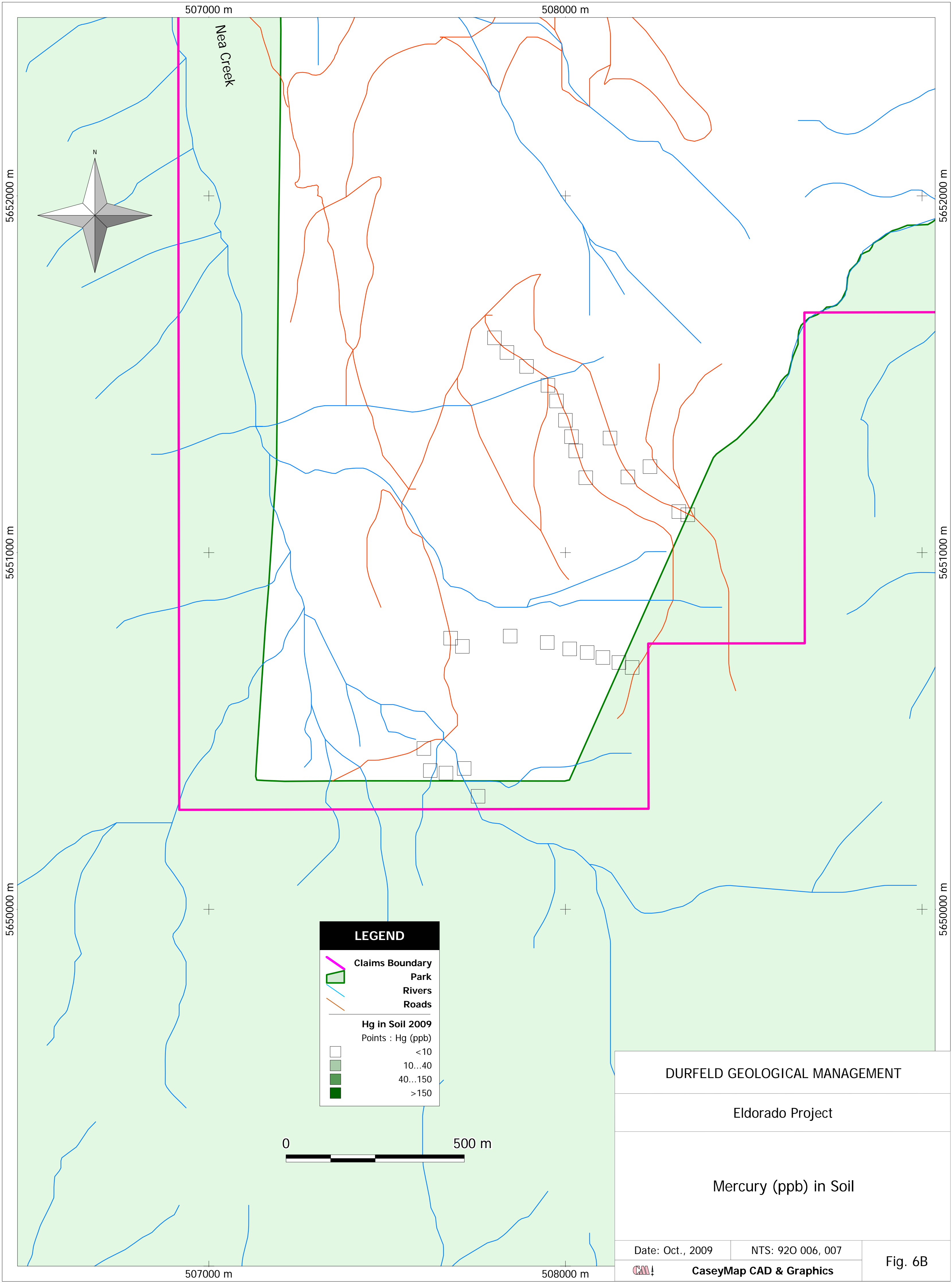
Eldorado Project

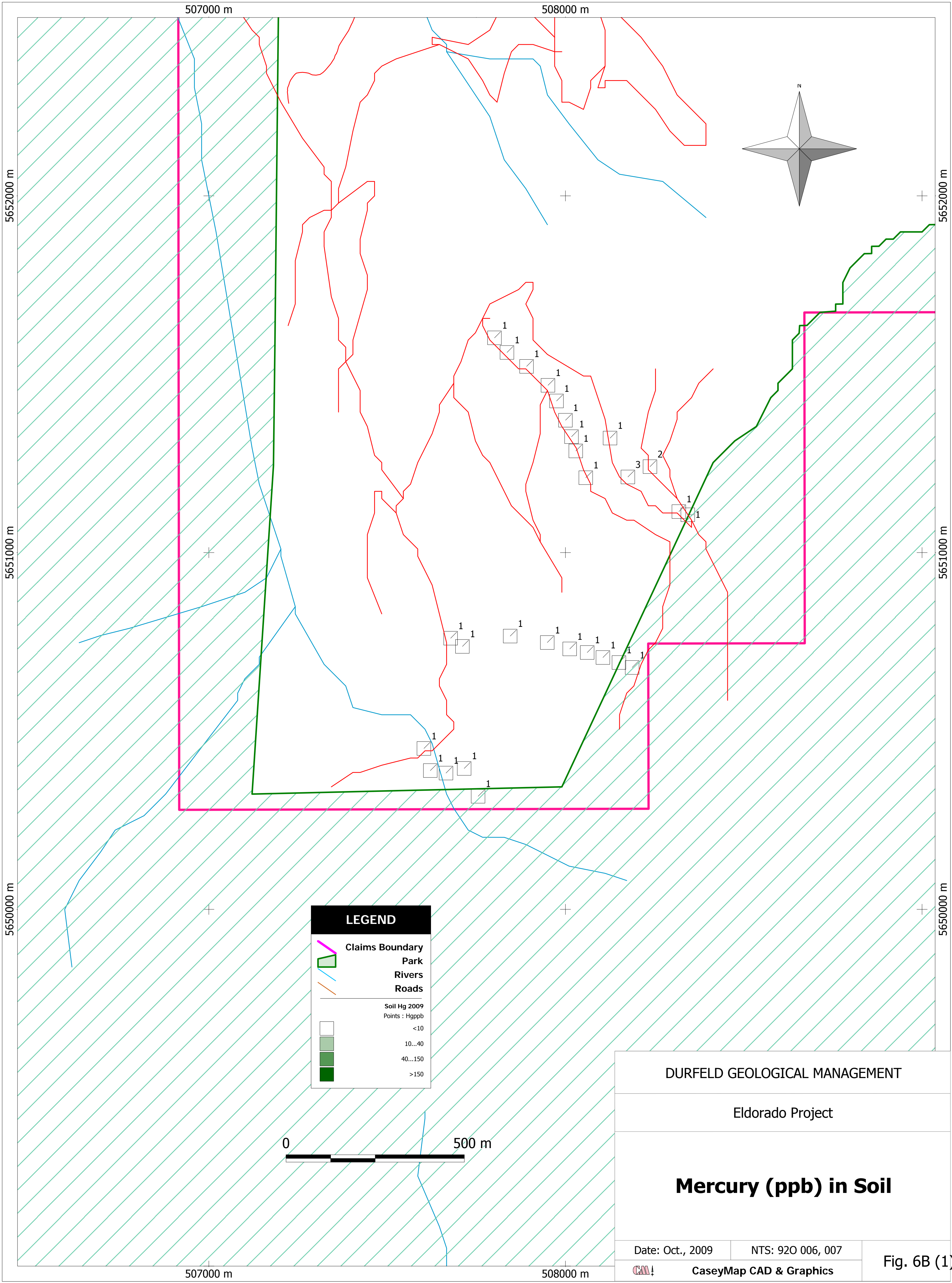
Mercury (ppb) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

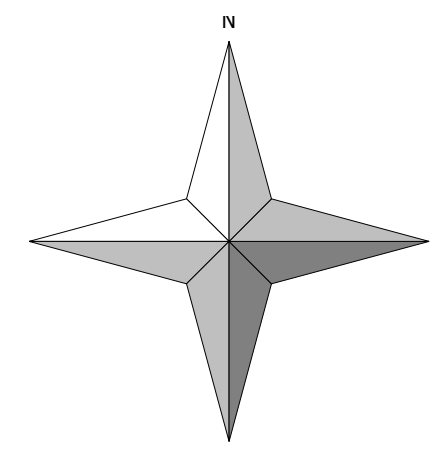
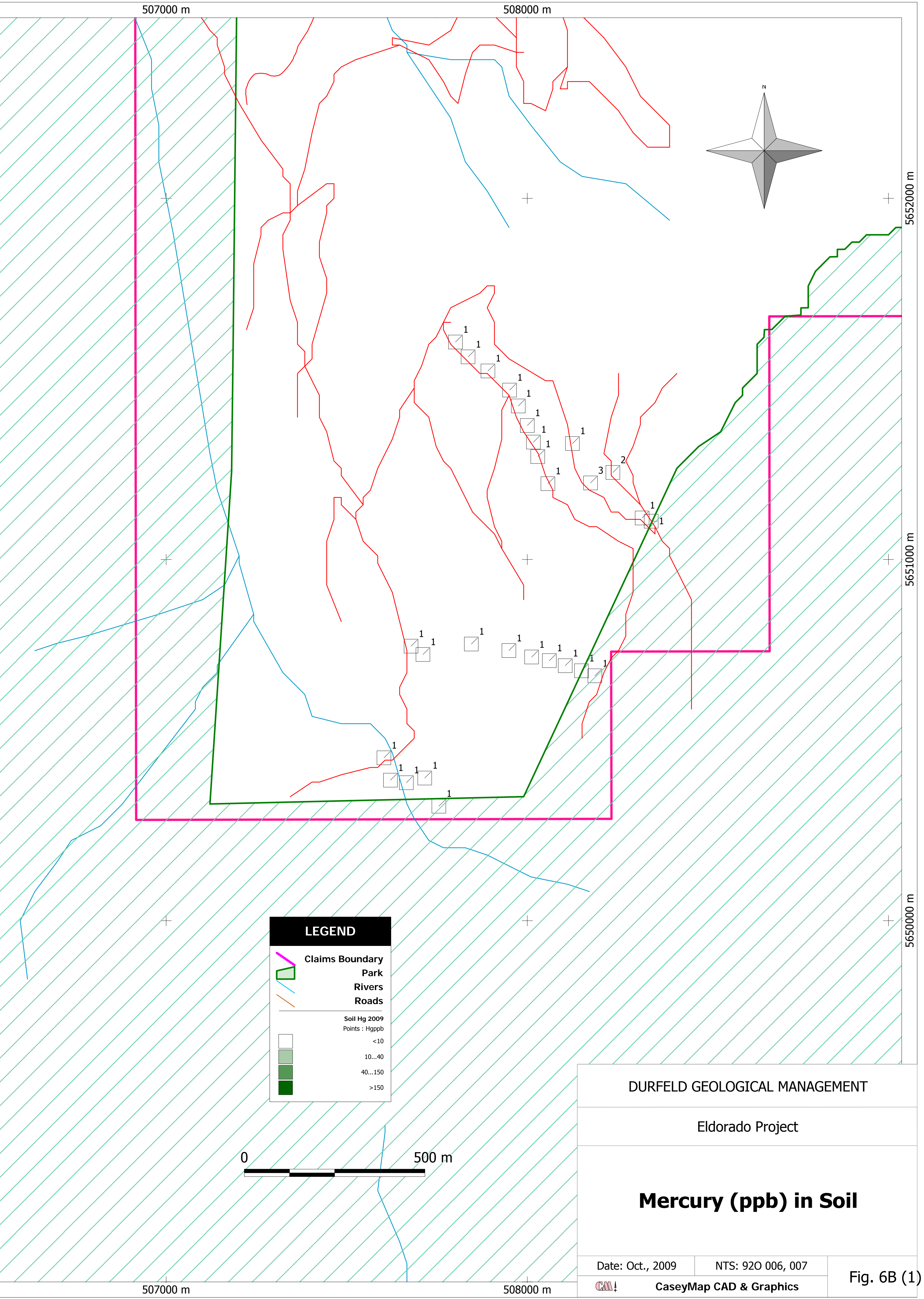
Fig. 6A (1)









5652000 m
5651000 m
5650000 m





507000 m
508000 m

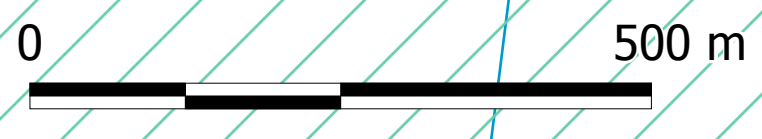



LEGEND

-  Claims Boundary
-  Park
-  Rivers
-  Roads

Soil Hg 2009
Points : Hgppb

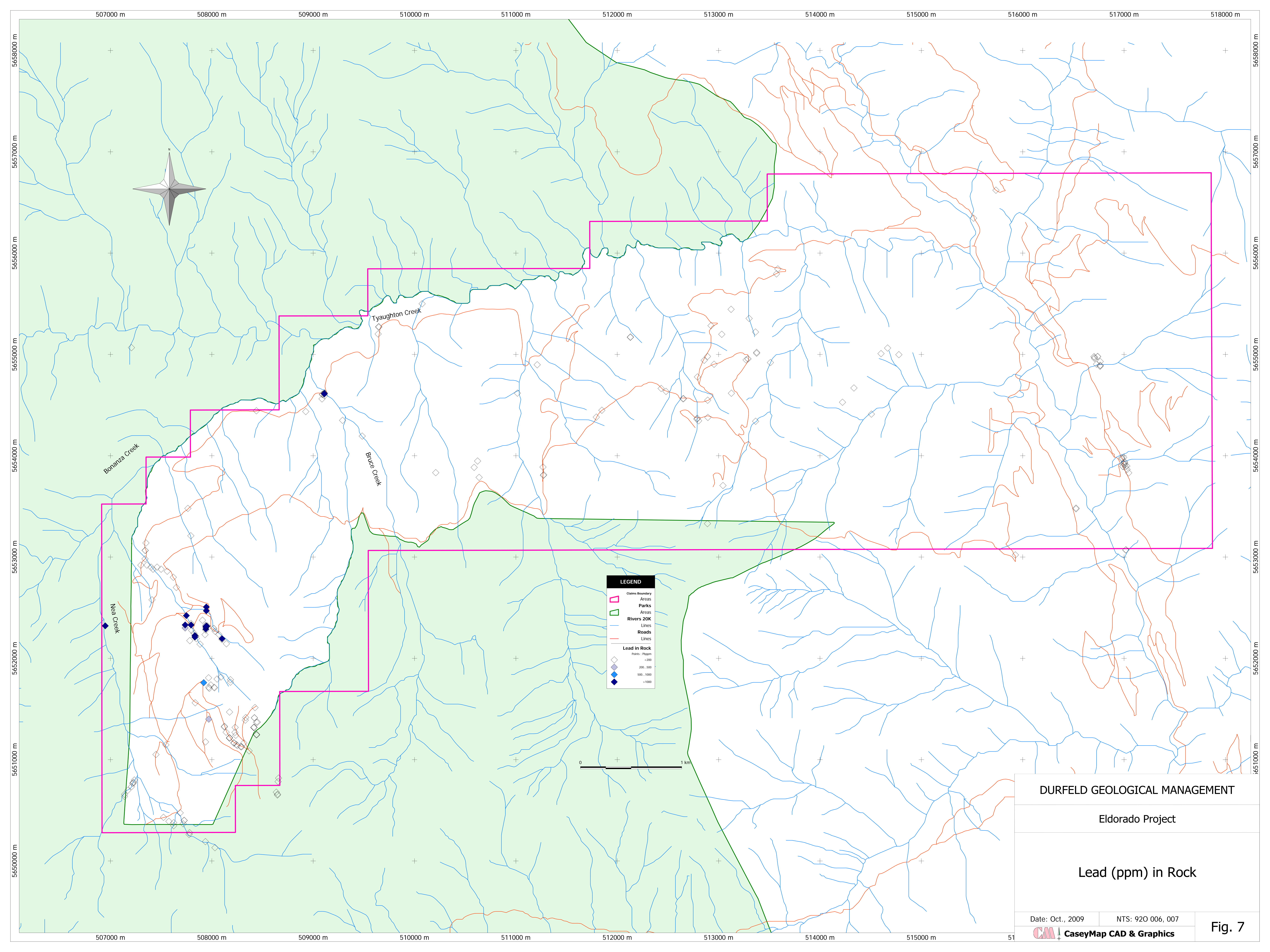
-  <10
-  10...40
-  40...150
-  >150



DURFELD GEOLOGICAL MANAGEMENT		
Eldorado Project		
Mercury (ppb) in Soil		
Date: Oct., 2009	NTS: 920 006, 007	
	CaseyMap CAD & Graphics	
		Fig. 6B (1)

507000 m

508000 m

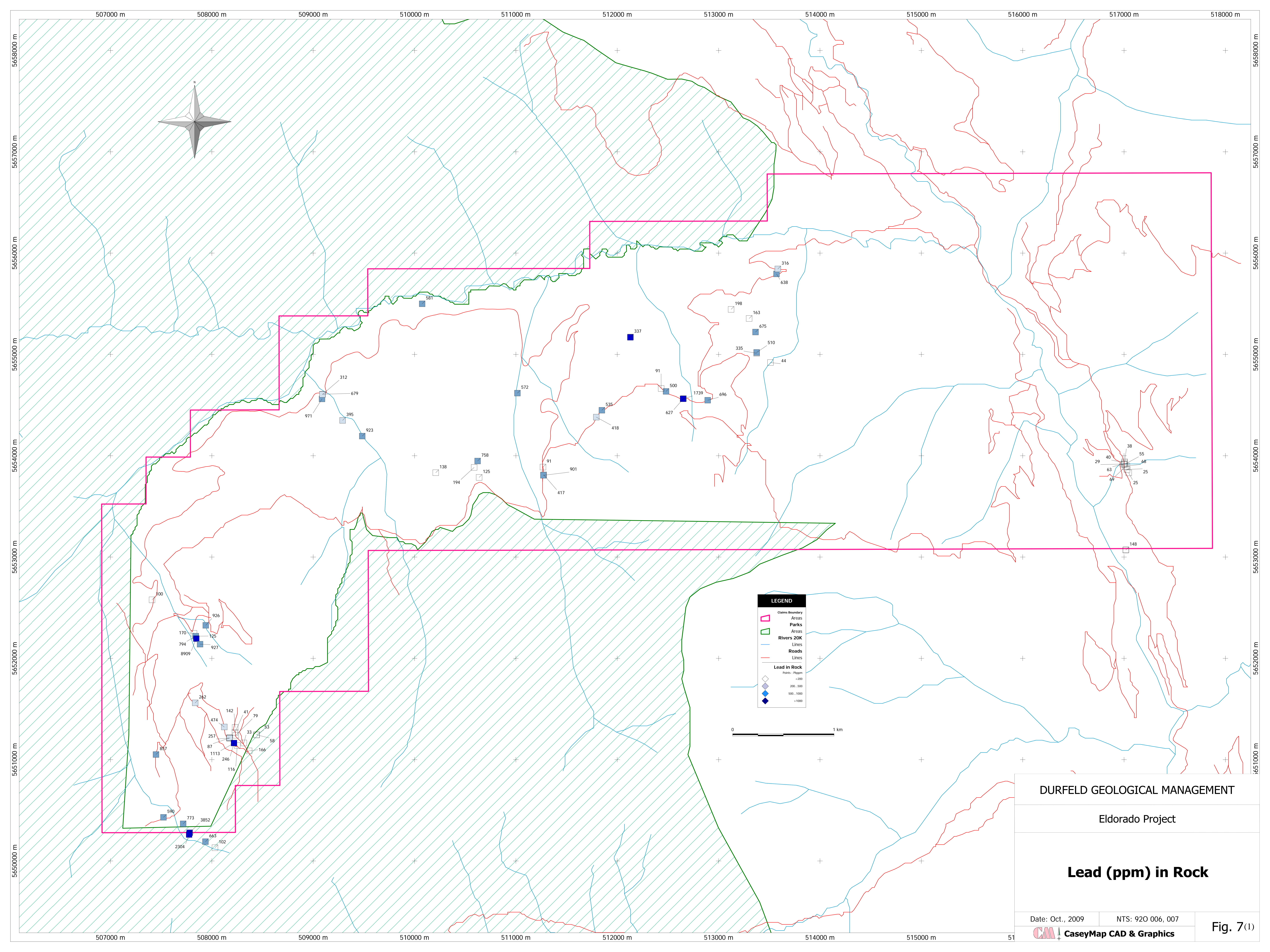


DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Lead (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007



DURFELD GEOLOGICAL MANAGEMENT

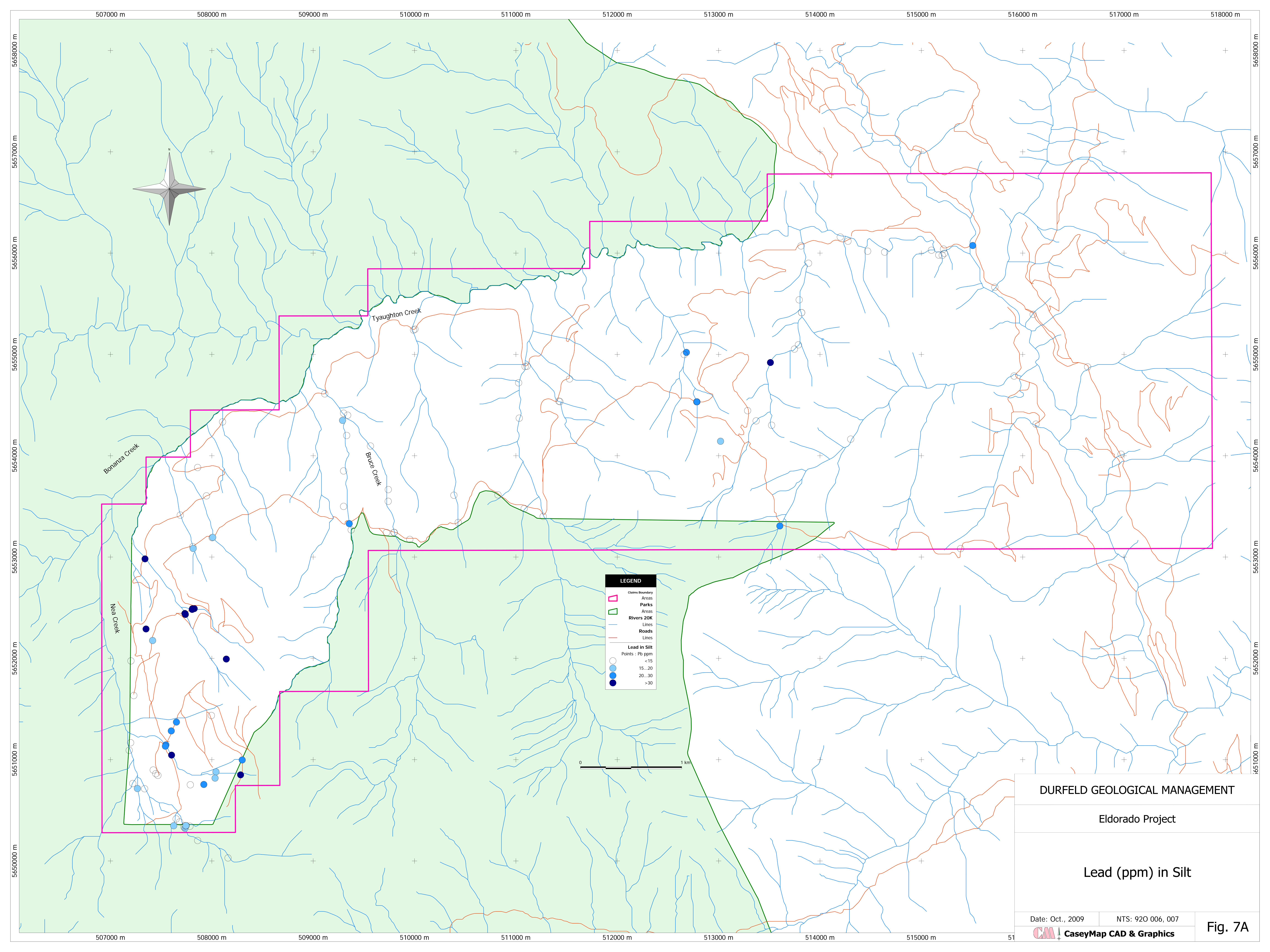
Eldorado Project

Lead (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 7(1)



LEGEND

- Claims Boundary (Pink outline)
- Parks Areas (Green fill)
- Rivers 20K (Blue lines)
- Roads (Orange lines)
- Lead in Silt Points : Pb ppm
 - <15 (White circle)
 - 15...20 (Light blue circle)
 - 20...30 (Medium blue circle)
 - >30 (Dark blue circle)

DURFELD GEOLOGICAL MANAGEMENT

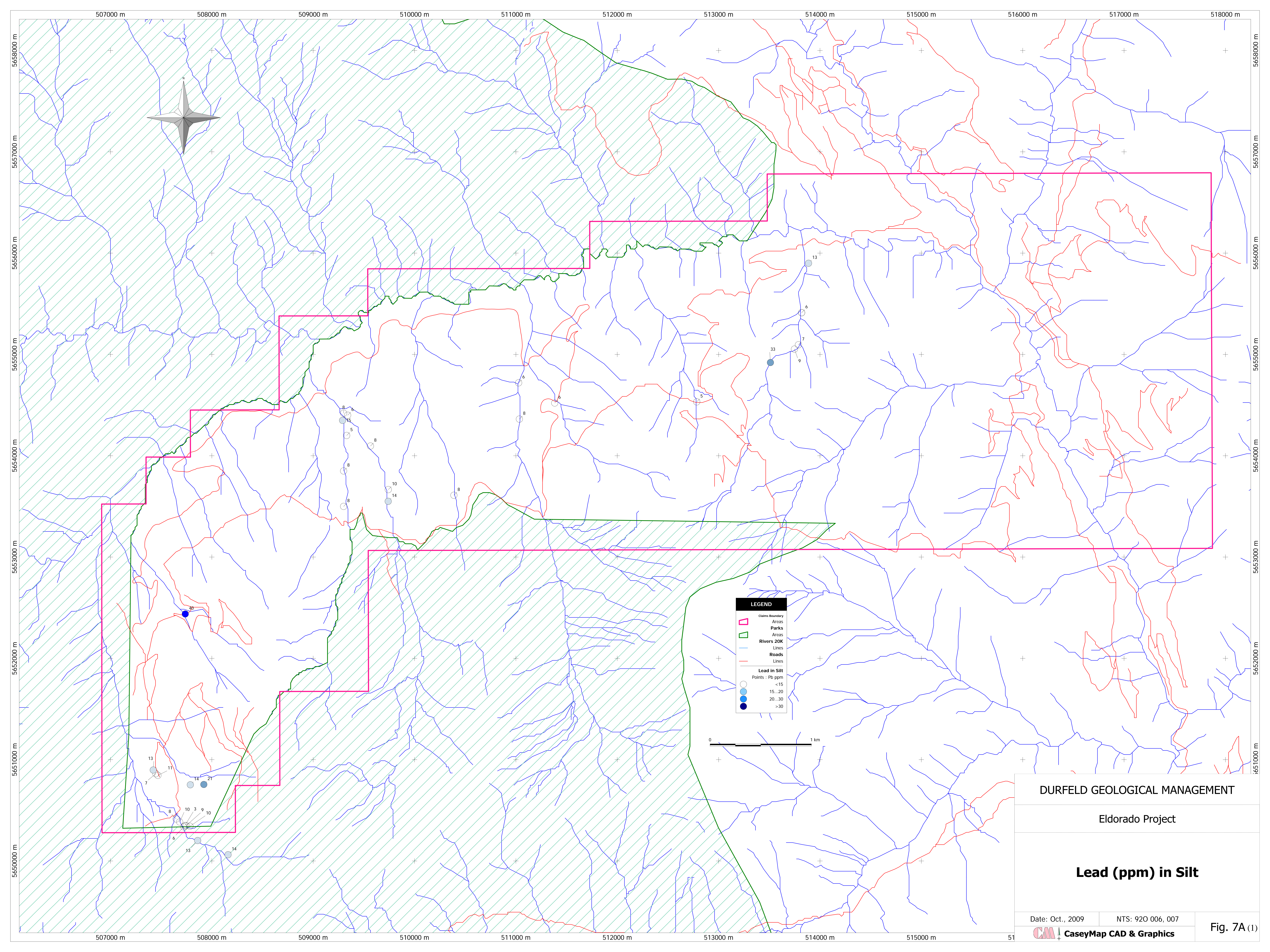
Eldorado Project

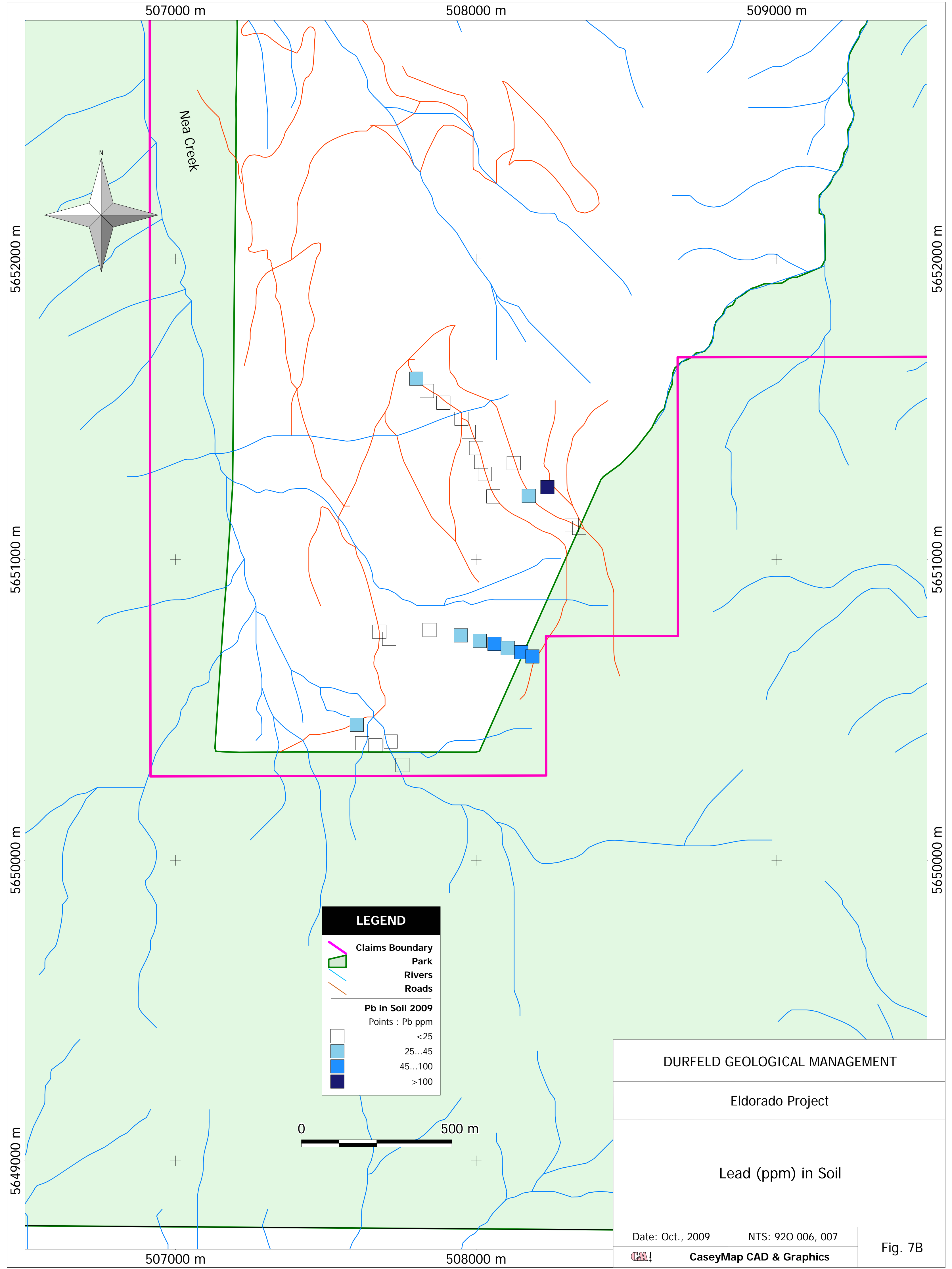
Lead (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics





Fig. 7A









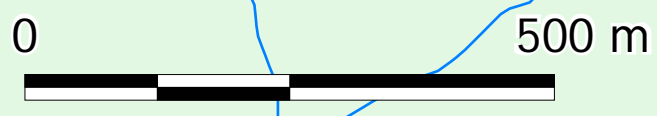
Nea Creek

LEGEND

-  Claims Boundary
-  Park
-  Rivers
-  Roads

Pb in Soil 2009
Points : Pb ppm

-  <25
-  25...45
-  45...100
-  >100



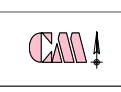
DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Lead (ppm) in Soil

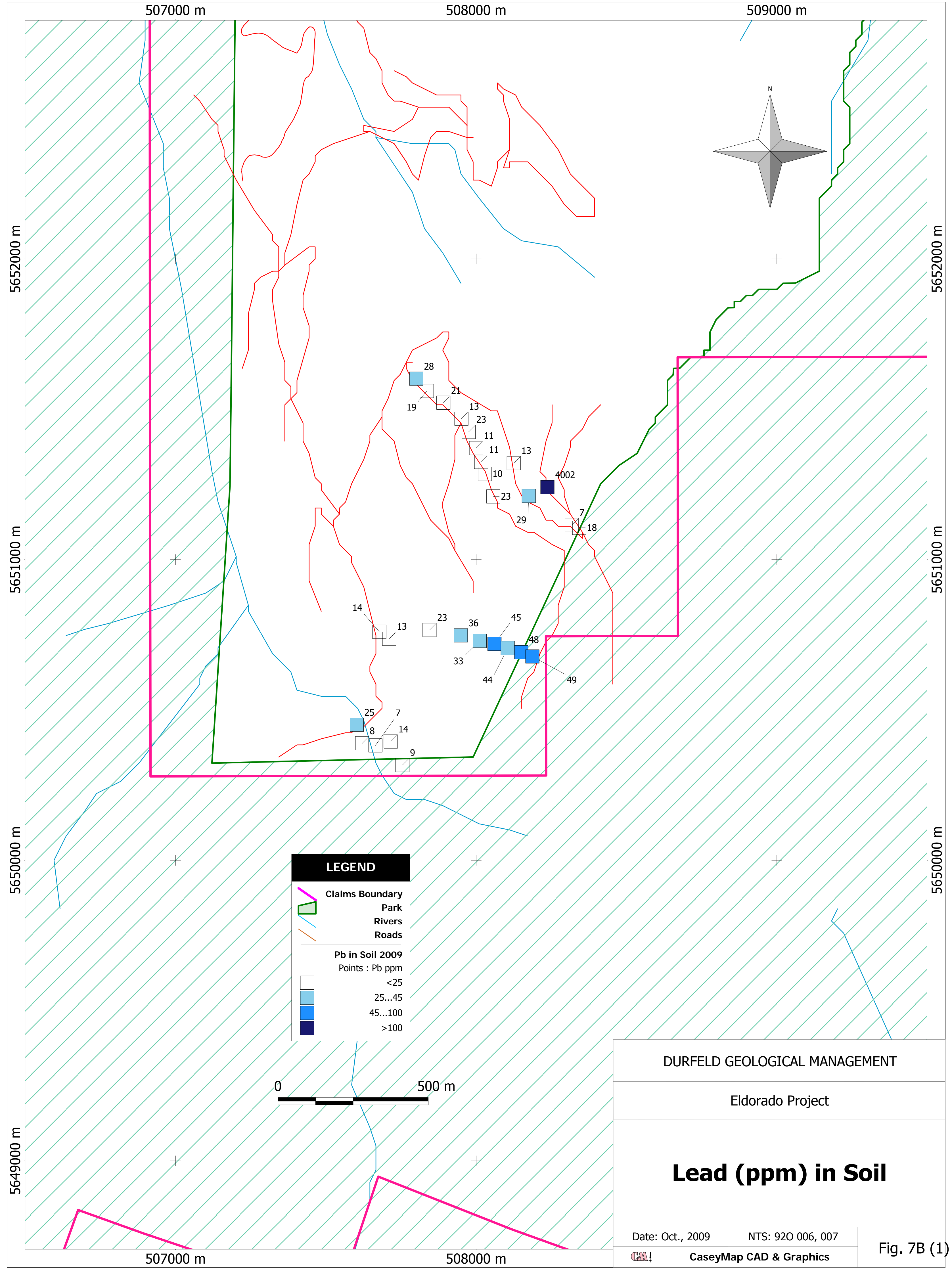
Date: Oct., 2009

NTS: 920 006, 007



CaseyMap CAD & Graphics

Fig. 7B

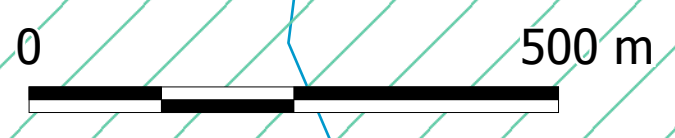


LEGEND

- Claims Boundary
- Park
- Rivers
- Roads

Pb in Soil 2009
Points : Pb ppm

- <25
- 25...45
- 45...100
- >100



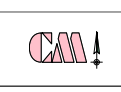
DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Lead (ppm) in Soil

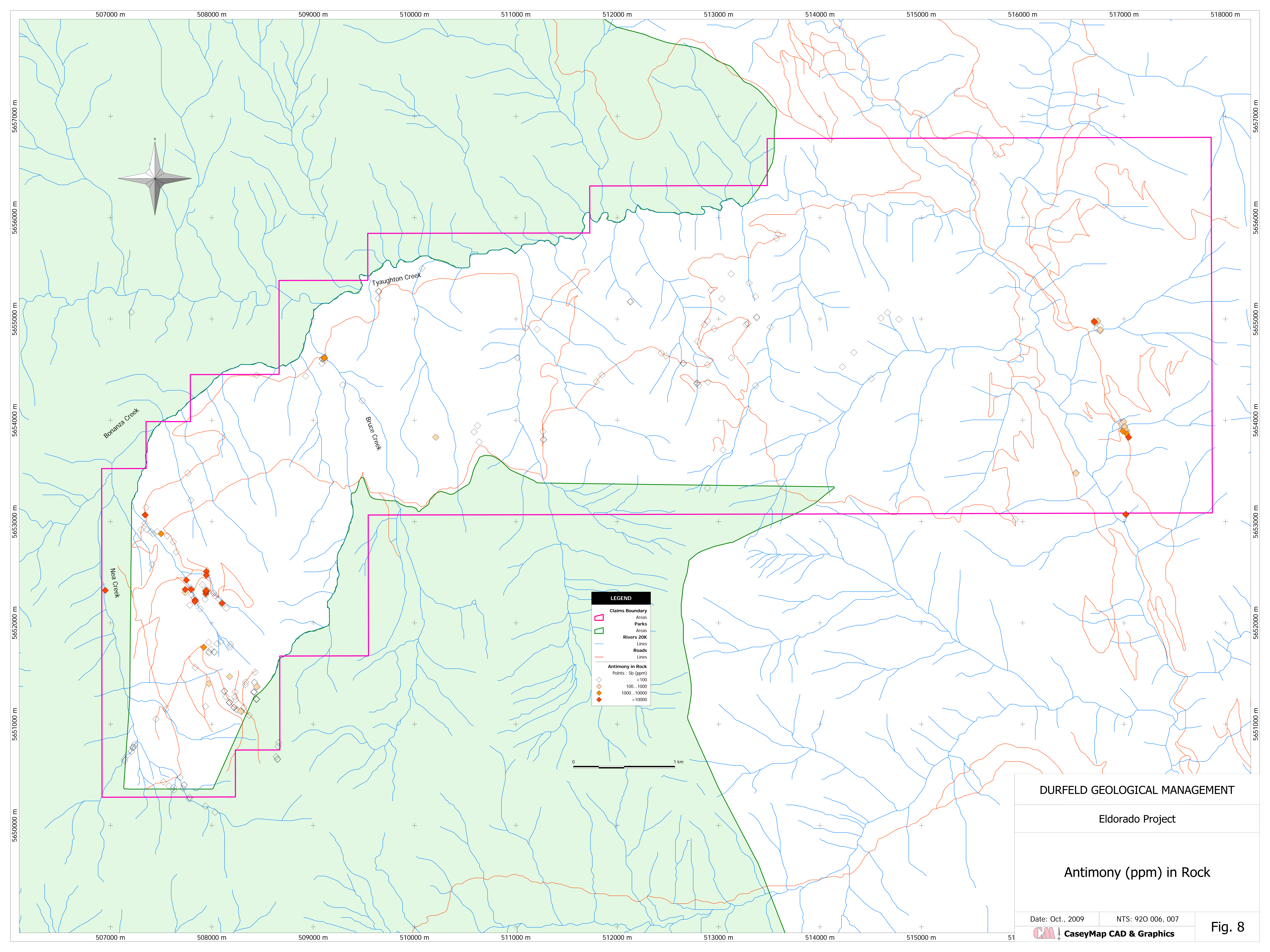
Date: Oct., 2009

NTS: 920 006, 007



CaseyMap CAD & Graphics

Fig. 7B (1)



DURFELD GEOLOGICAL MANAGEMENT

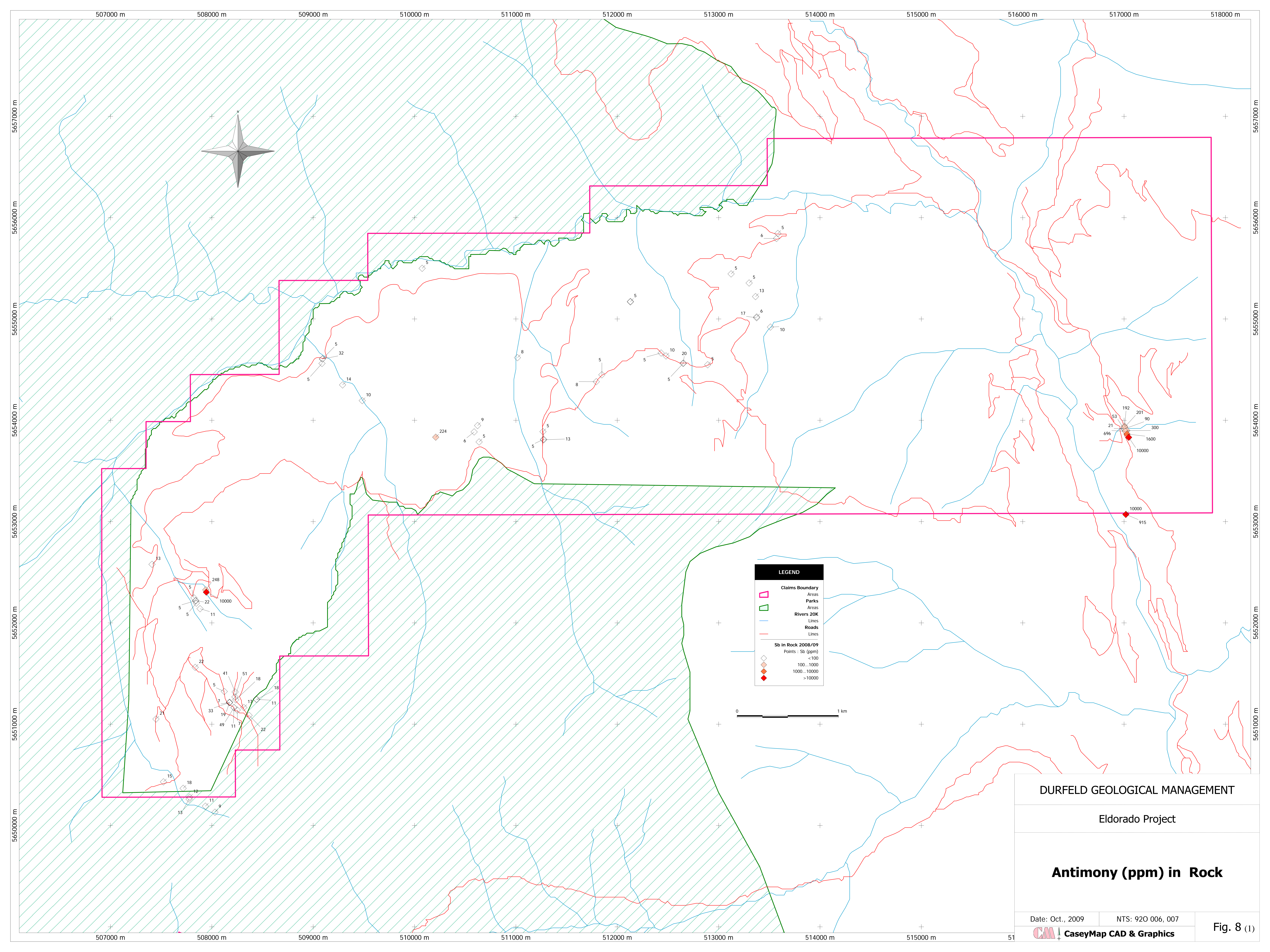
Eldorado Project

Antimony (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007

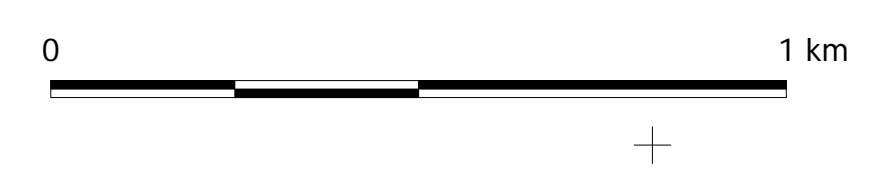
CaseyMap CAD & Graphics

Fig. 8



LEGEND

- Claims Boundary**
 - Areas
- Parks**
 - Areas
- Rivers 20K**
 - Lines
- Roads**
 - Lines
- Sb in Rock 2008/09**
 - Points : Sb (ppm)
 - <100
 - 100...1000
 - 1000...10000
 - >10000



DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

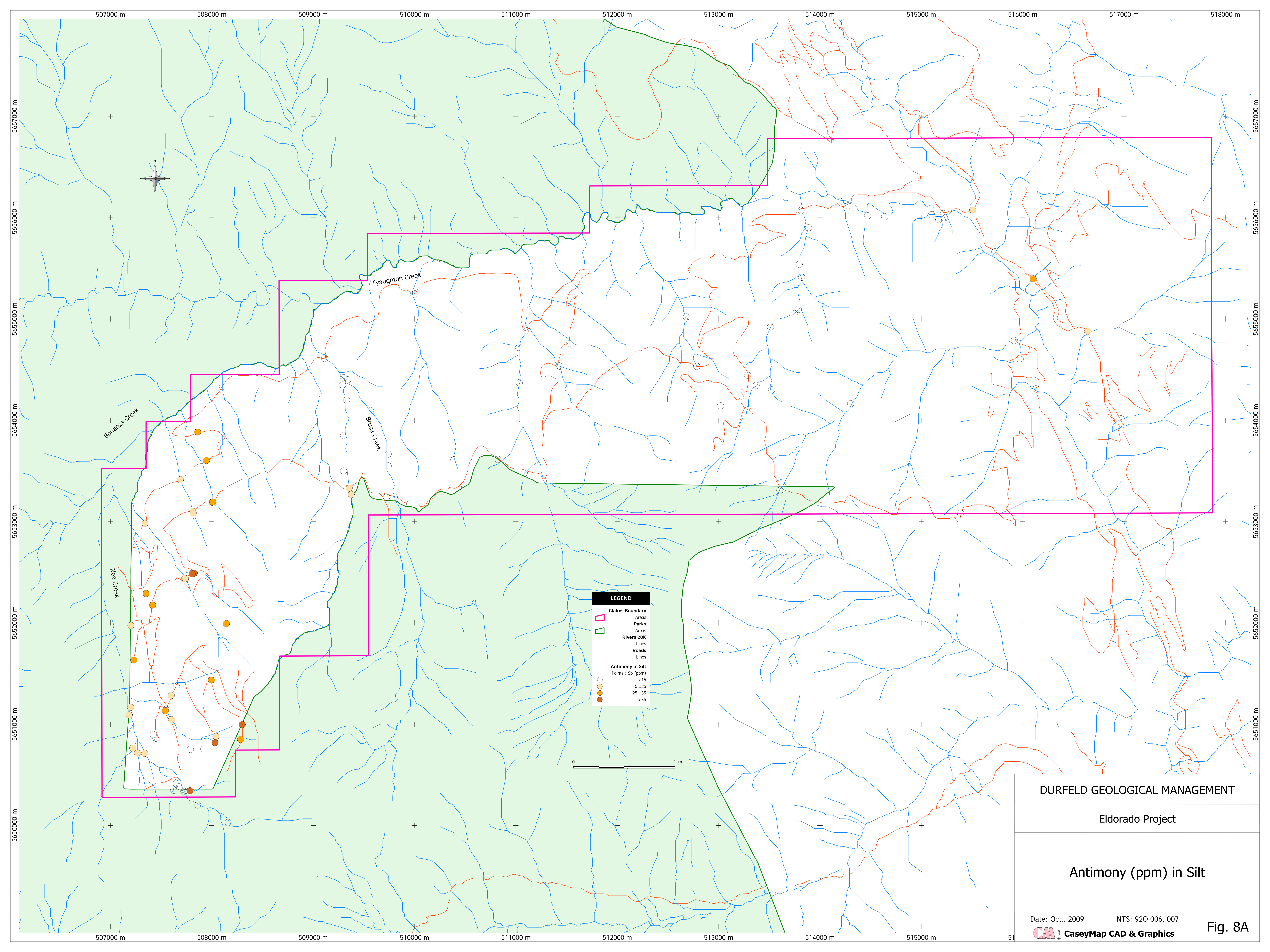
Antimony (ppm) in Rock

Date: Oct., 2009

NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 8 (1)

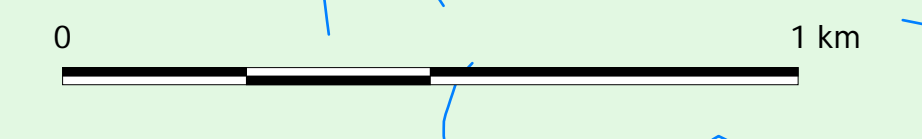


LEGEND

- Claims Boundary Areas
- Parks Areas
- Rivers 20K Lines
- Roads Lines

Antimony in Silt
 Points : Sb (ppm)

- <15
- 15...25
- 25...35
- >35



DURFELD GEOLOGICAL MANAGEMENT

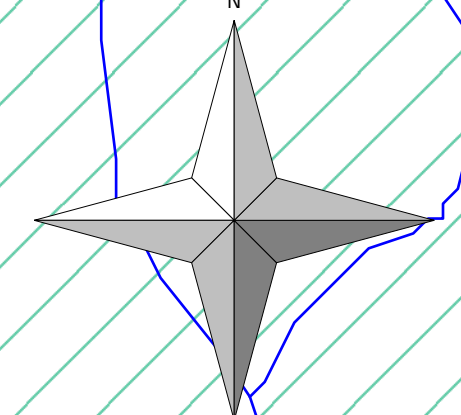
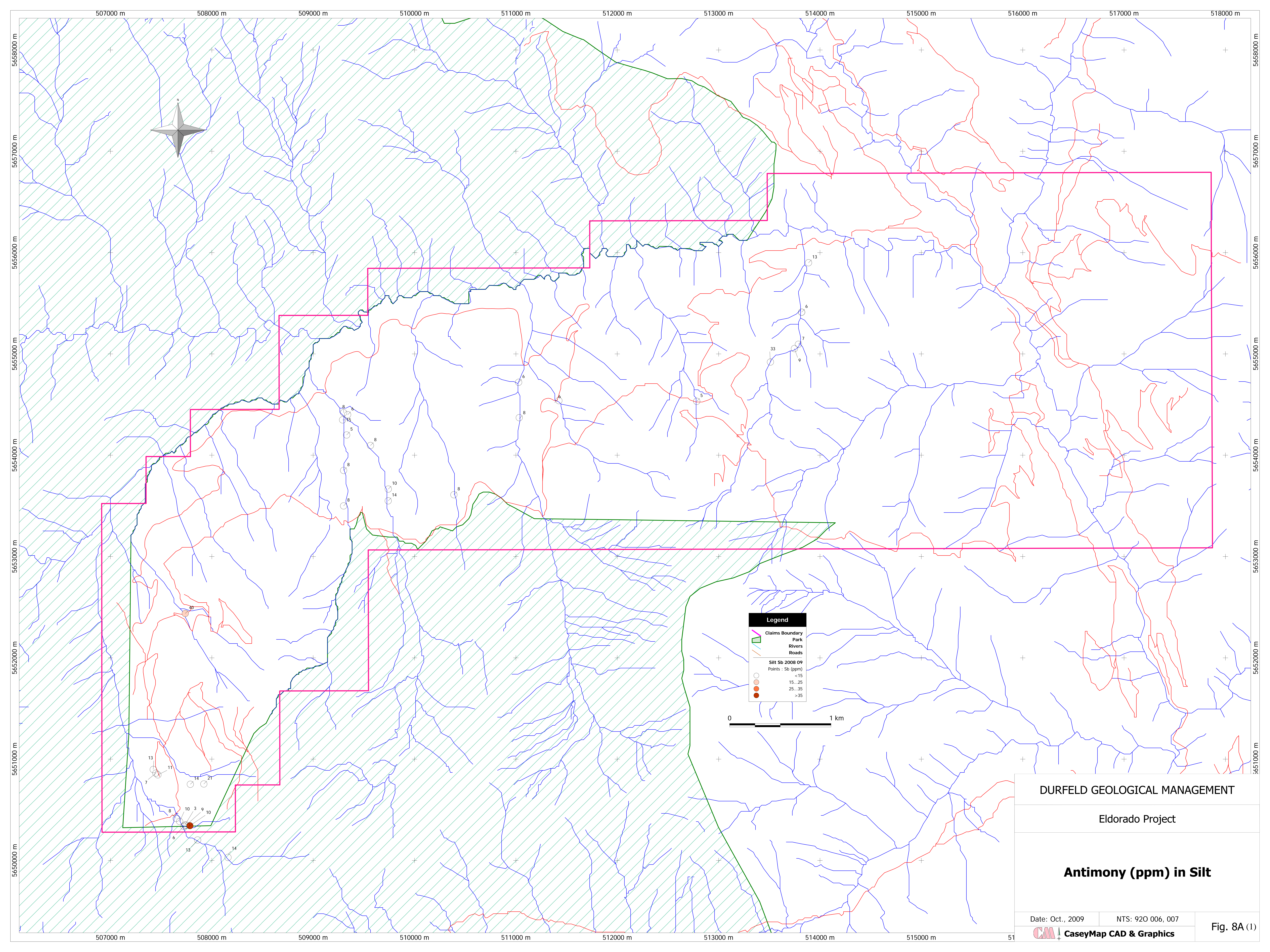
Eldorado Project

Antimony (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 8A



Legend

- Claims Boundary
- Park
- Rivers
- Roads

Silt Sb 2008 09
Points : Sb (ppm)

- <15
- 15 - 25
- 25 - 35
- >35



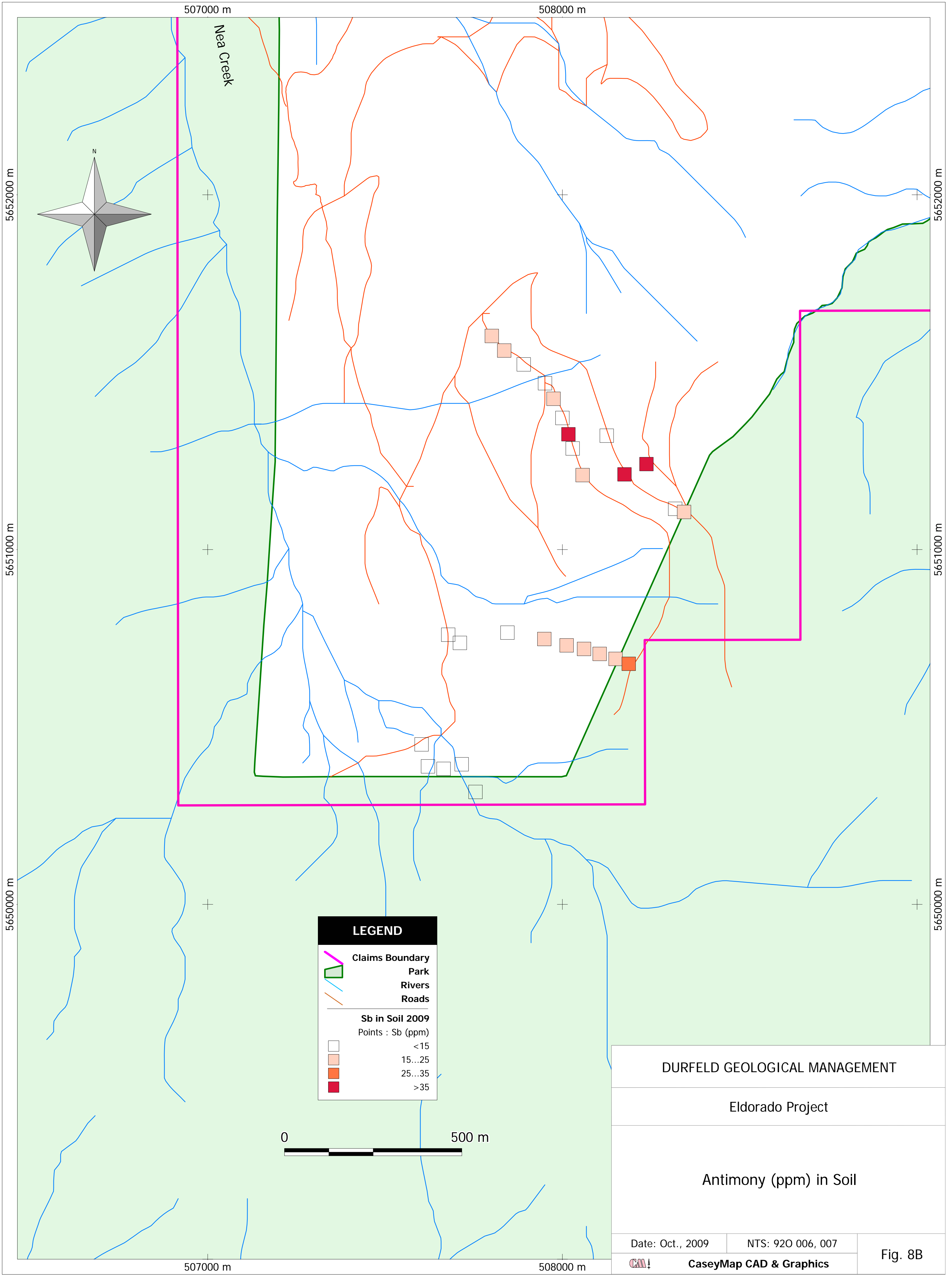
DURFELD GEOLOGICAL MANAGEMENT

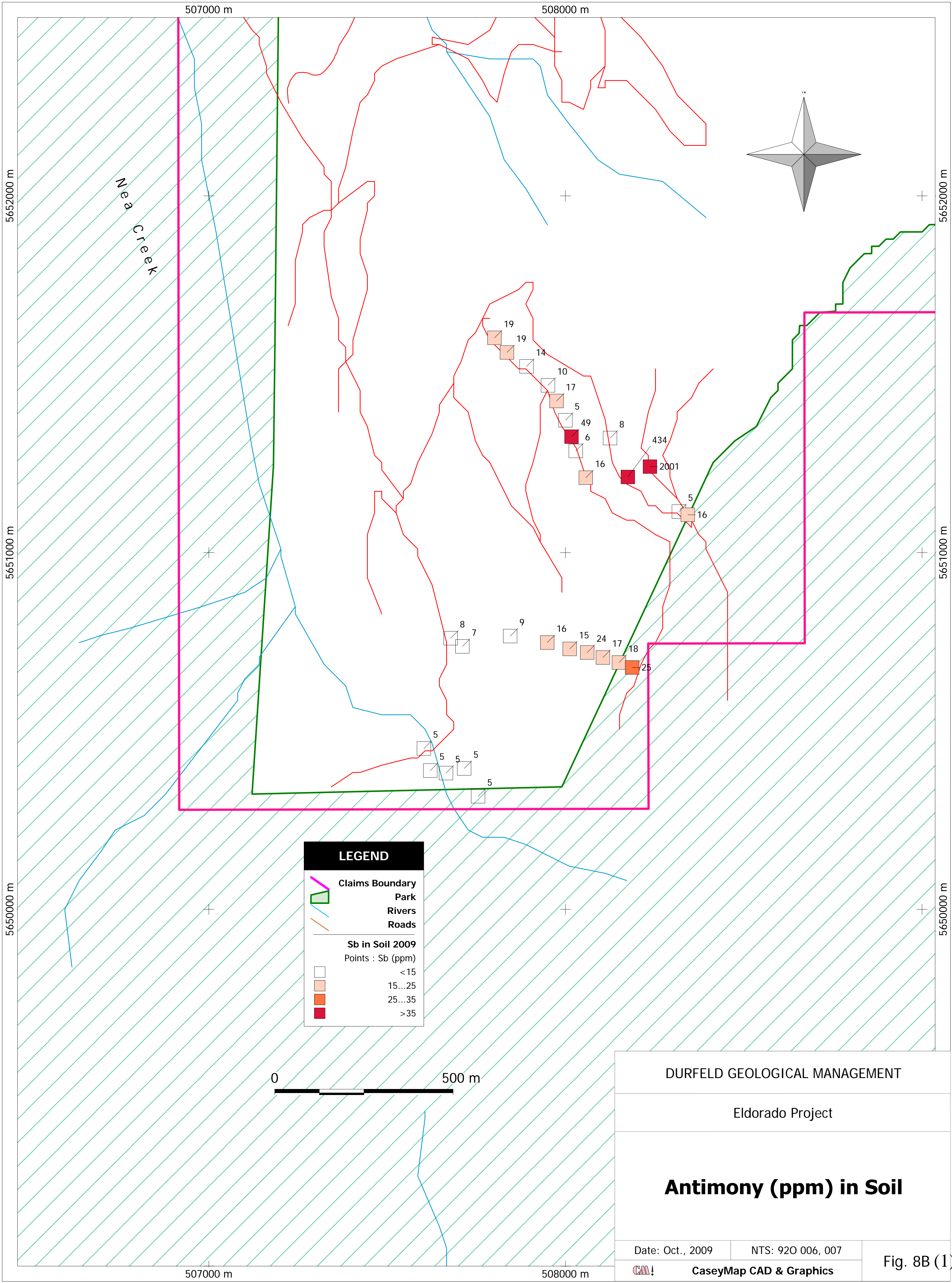
Eldorado Project

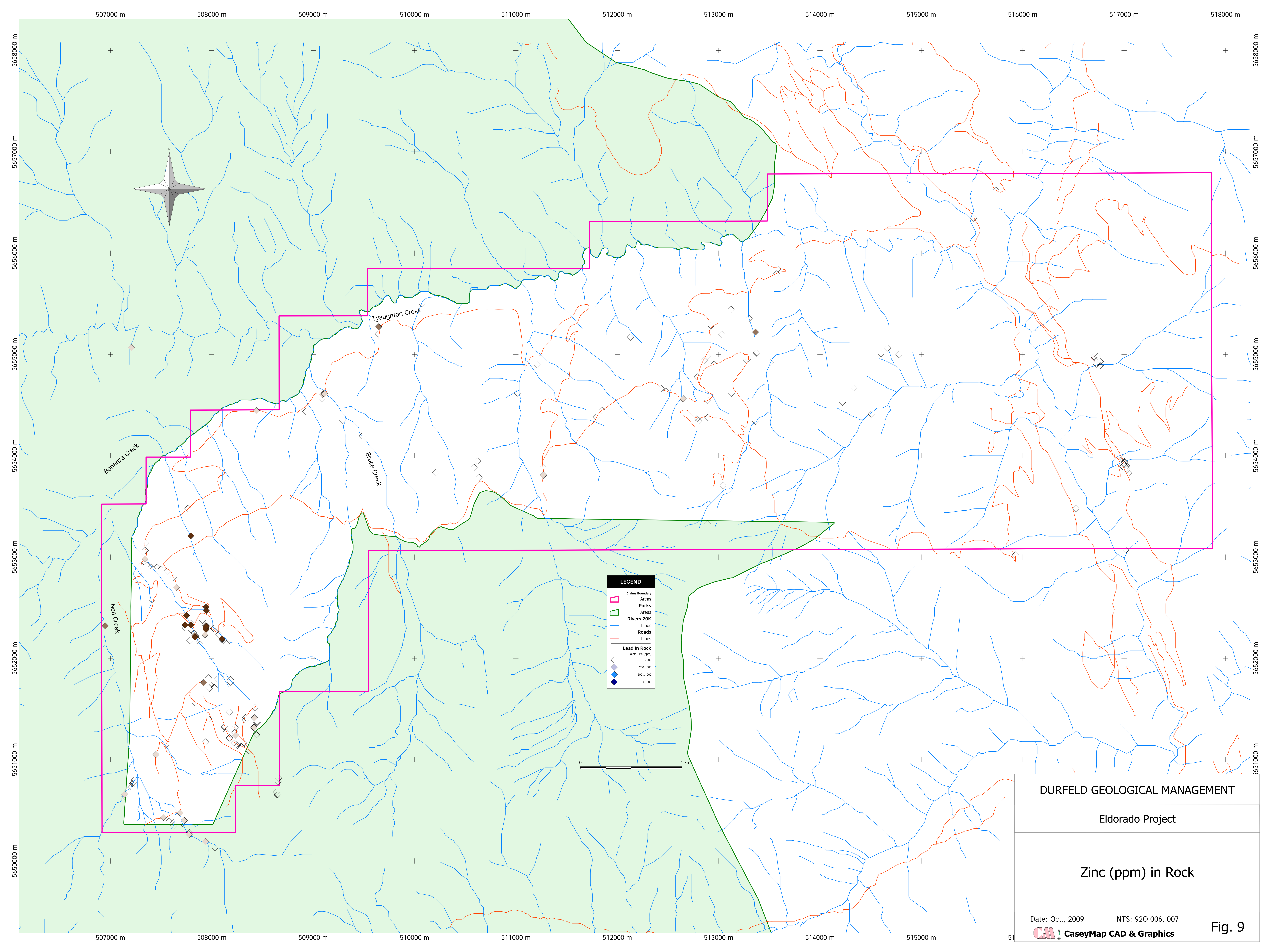
Antimony (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics





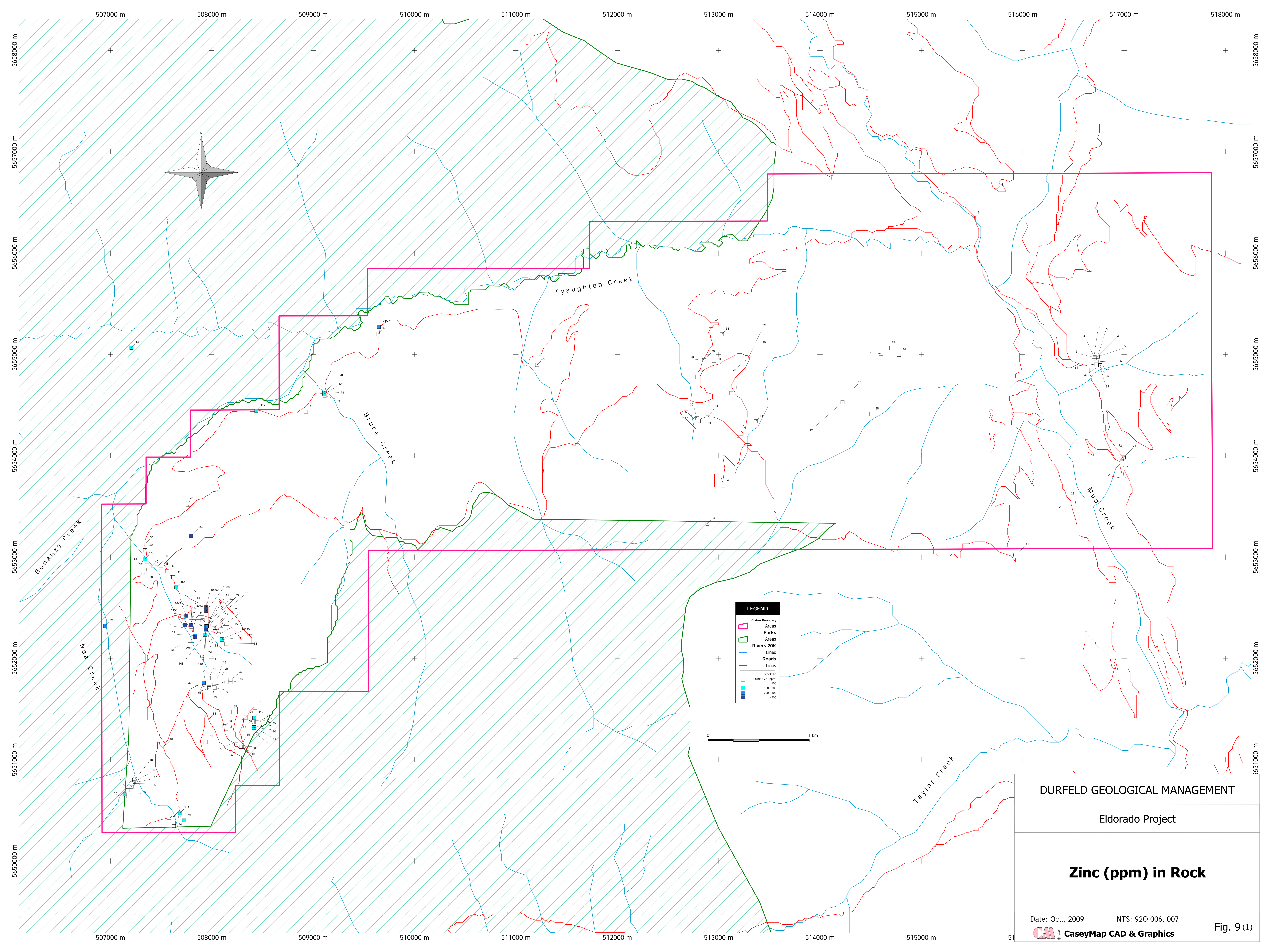


DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Zinc (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007



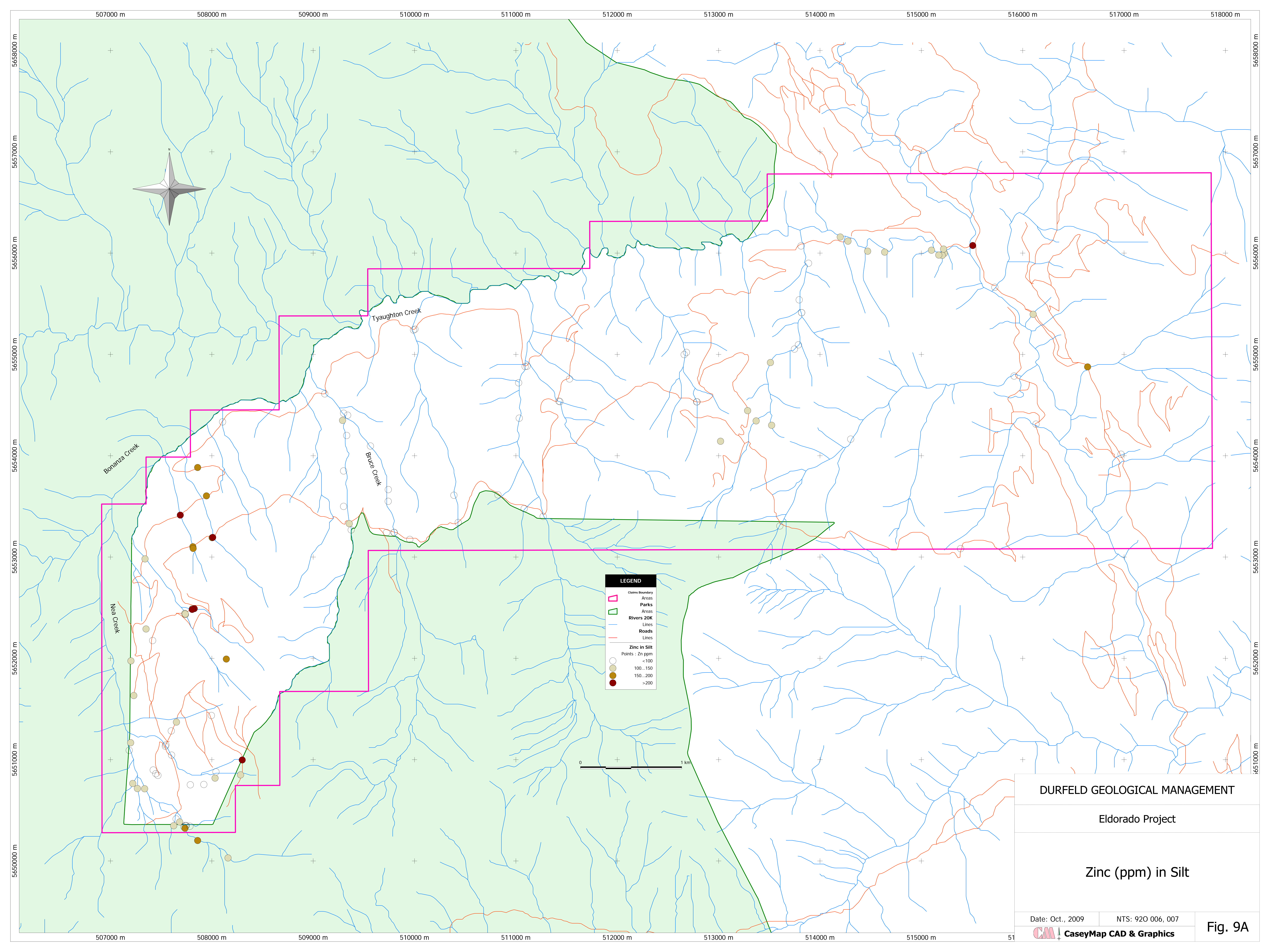
DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Zinc (ppm) in Rock

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics



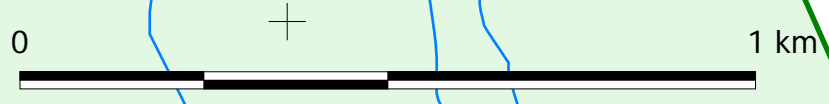
LEGEND

- Claims Boundary
- Areas
- Parks
- Areas
- Rivers 20K
- Lines
- Roads
- Lines

Zinc in Silt

Points : Zn ppm

- <100
- 100...150
- 150...200
- >200



DURFELD GEOLOGICAL MANAGEMENT

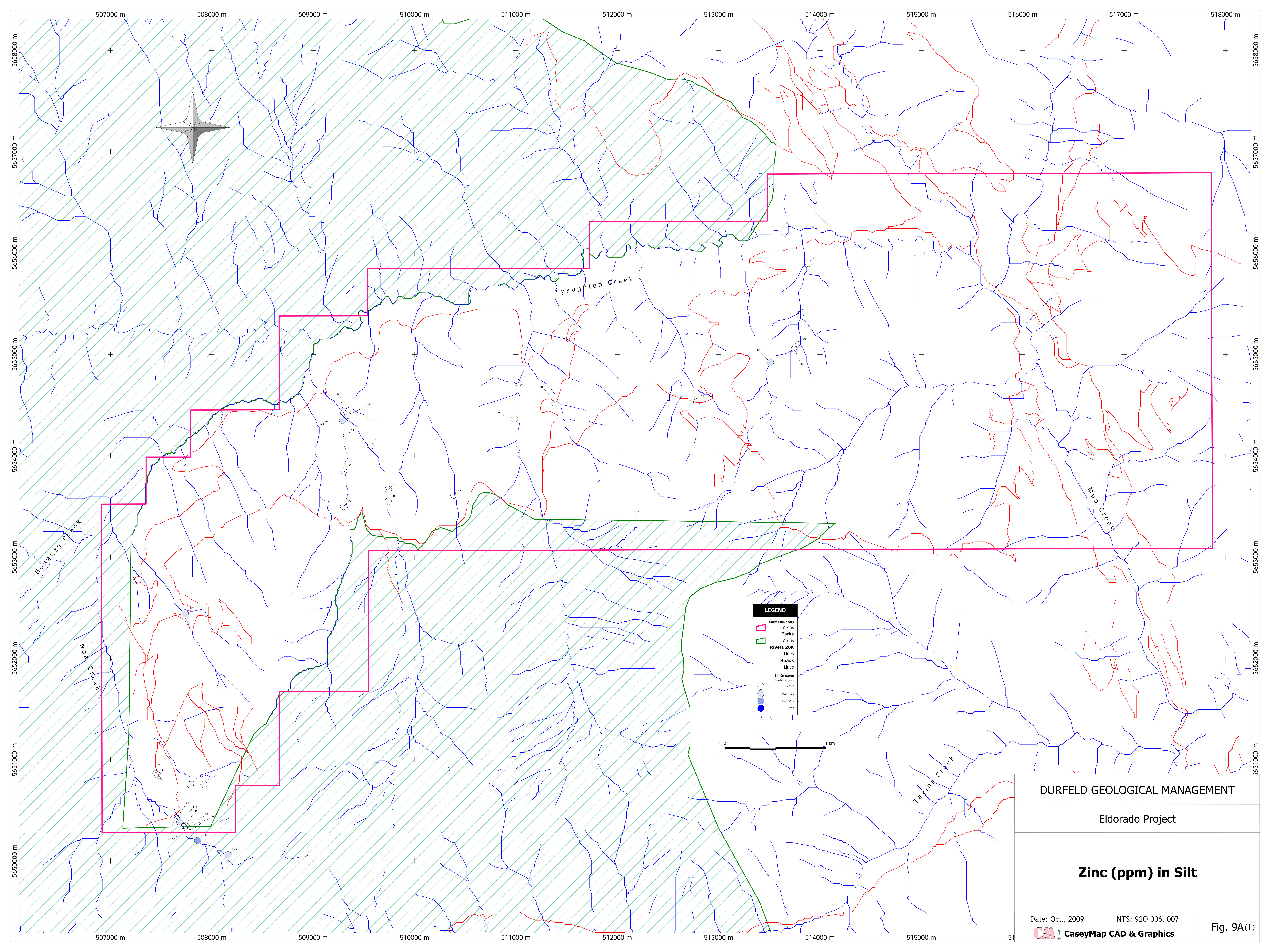
Eldorado Project

Zinc (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

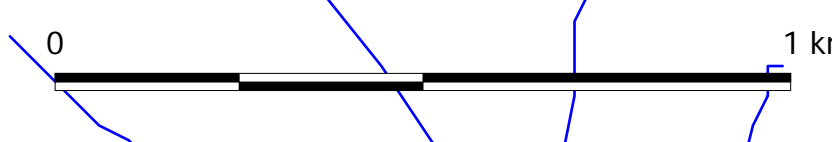
CaseyMap CAD & Graphics

Fig. 9A



LEGEND

- Claims Boundary
- Parks Areas
- Rivers ZOK
- Roads Lines
- Silt Zn (ppm) Points (Zppm)
 - <100
 - 100-150
 - 150-200
 - >200



DURFELD GEOLOGICAL MANAGEMENT

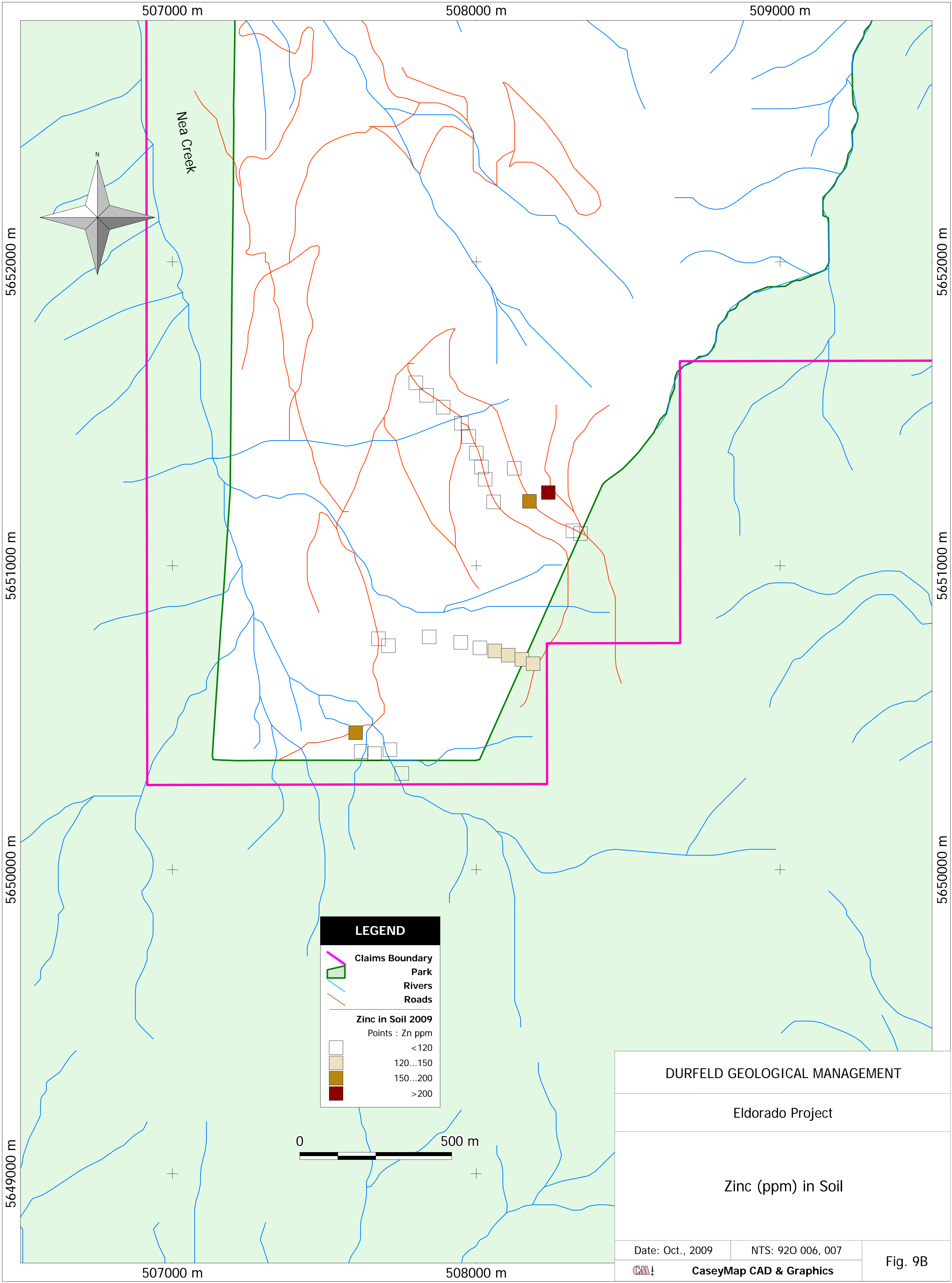
Eldorado Project

Zinc (ppm) in Silt

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 9A(1)



DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Zinc (ppm) in Soil

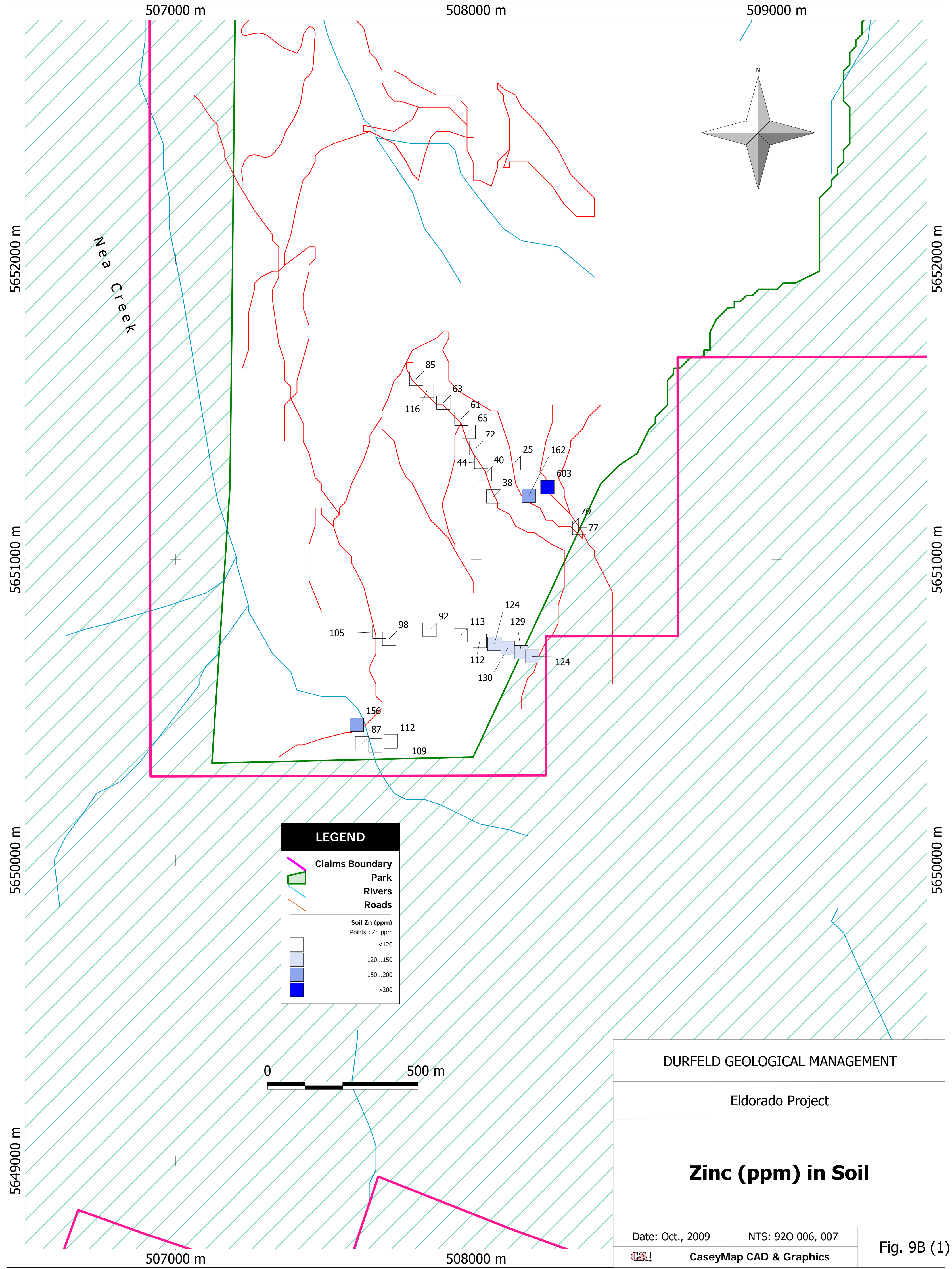
Date: Oct., 2009

NTS: 920 006, 007

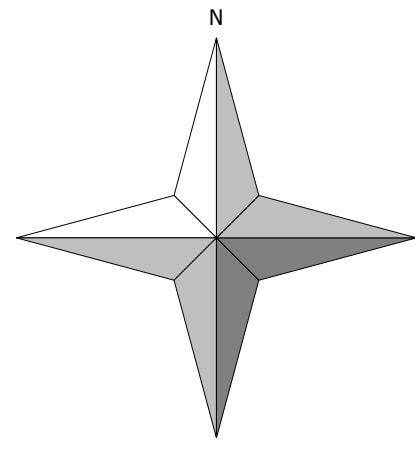


CaseyMap CAD & Graphics

Fig. 9B



Nea Creek

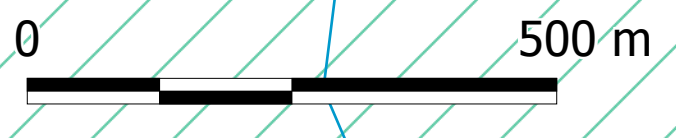


LEGEND

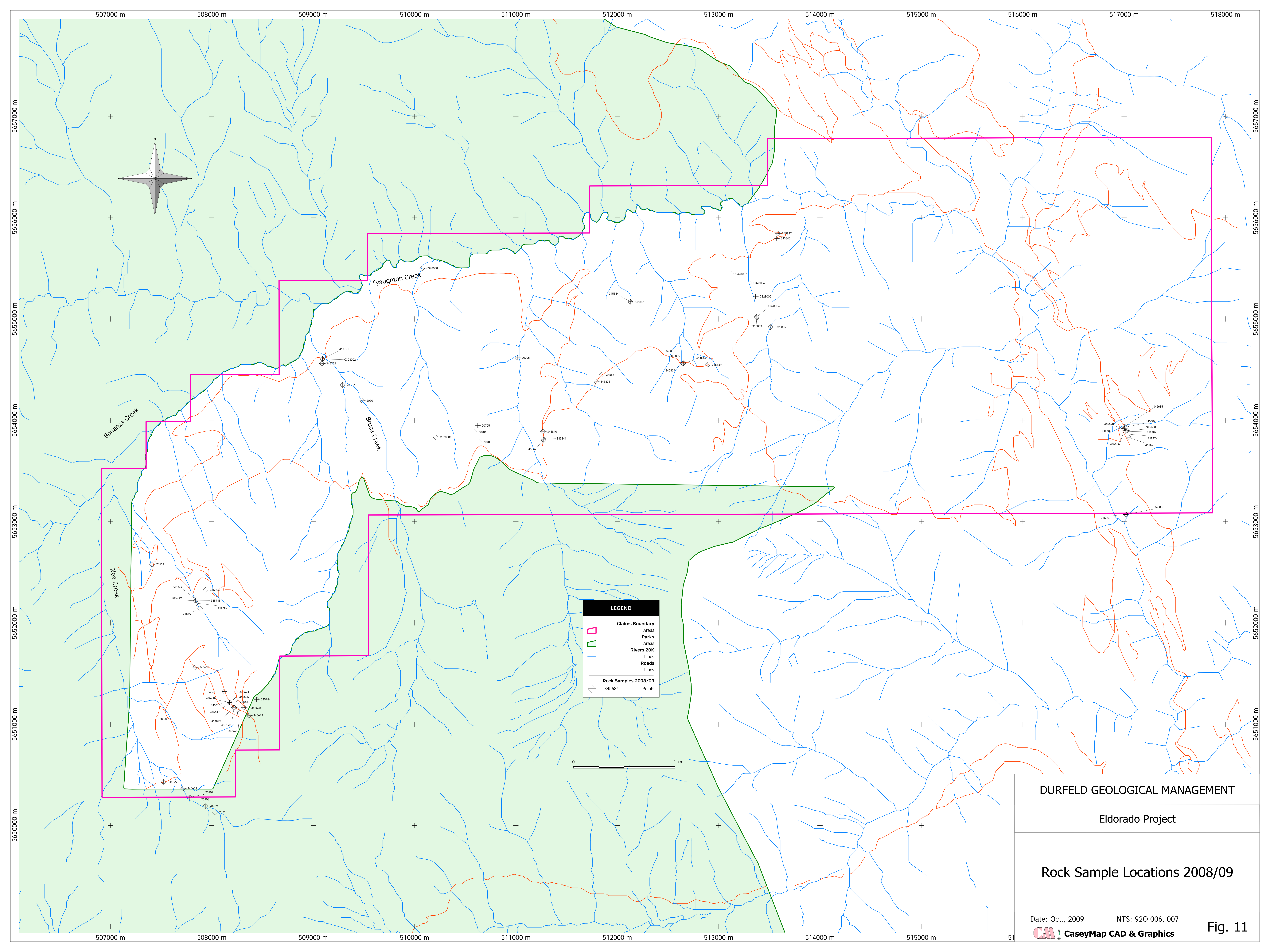
- Claims Boundary
- Park
- Rivers
- Roads

Soil Zn (ppm)
Points : Zn ppm

- <120
- 120...150
- 150...200
- >200



DURFELD GEOLOGICAL MANAGEMENT		
Eldorado Project		
Zinc (ppm) in Soil		
Date: Oct., 2009	NTS: 920 006, 007	
	CaseyMap CAD & Graphics	
Fig. 9B (1)		



DURFELD GEOLOGICAL MANAGEMENT

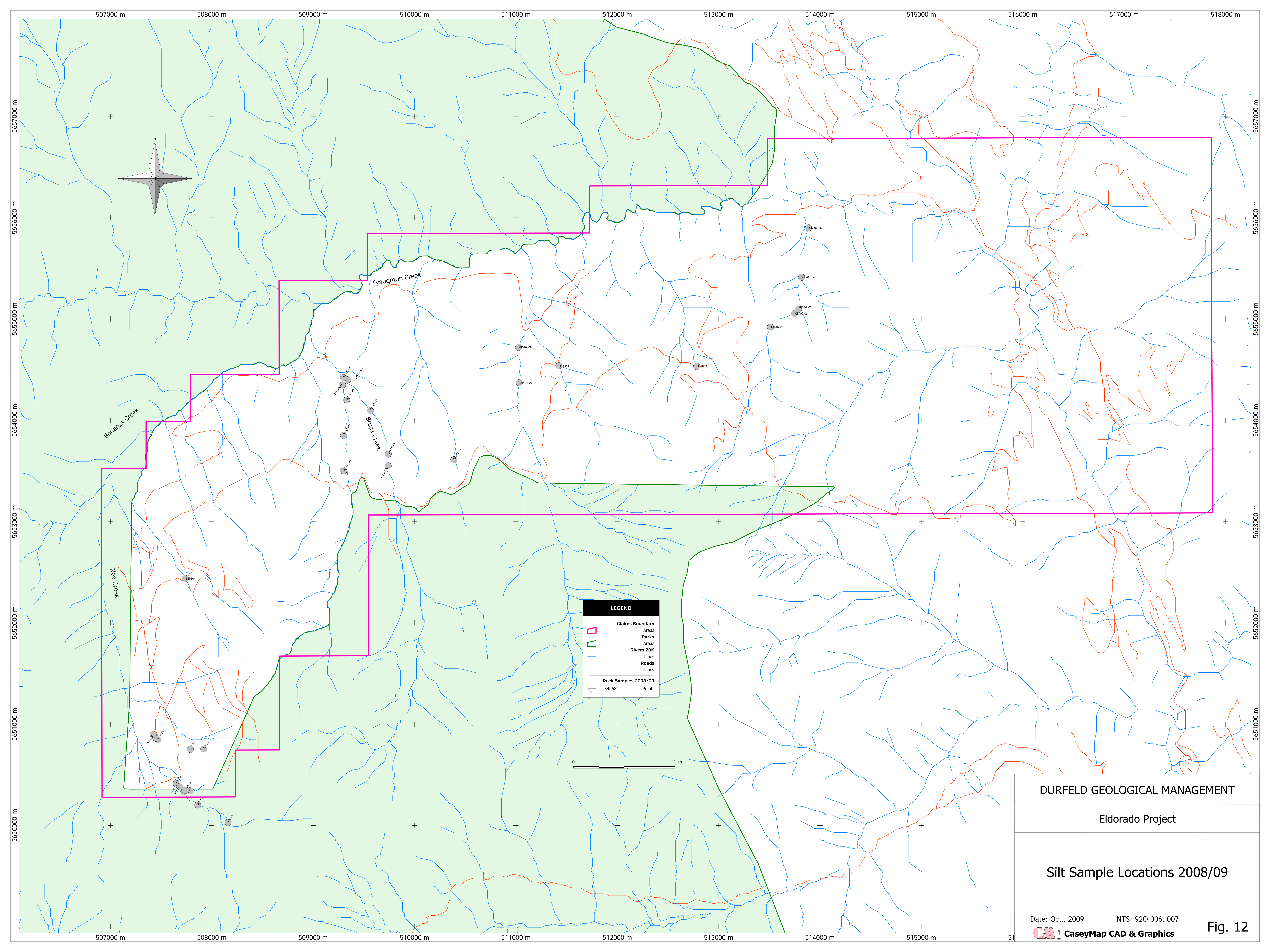
Eldorado Project

Rock Sample Locations 2008/09

Date: Oct., 2009 NTS: 920 006, 007

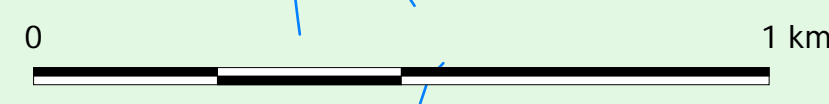
CaseyMap CAD & Graphics

Fig. 11



LEGEND

- ▭ Claims Boundary
- ▭ Parks Areas
- Rivers 20K
- Roads
- ◆ Rock Samples 2008/09
- ◆ 345684 Points



DURFELD GEOLOGICAL MANAGEMENT

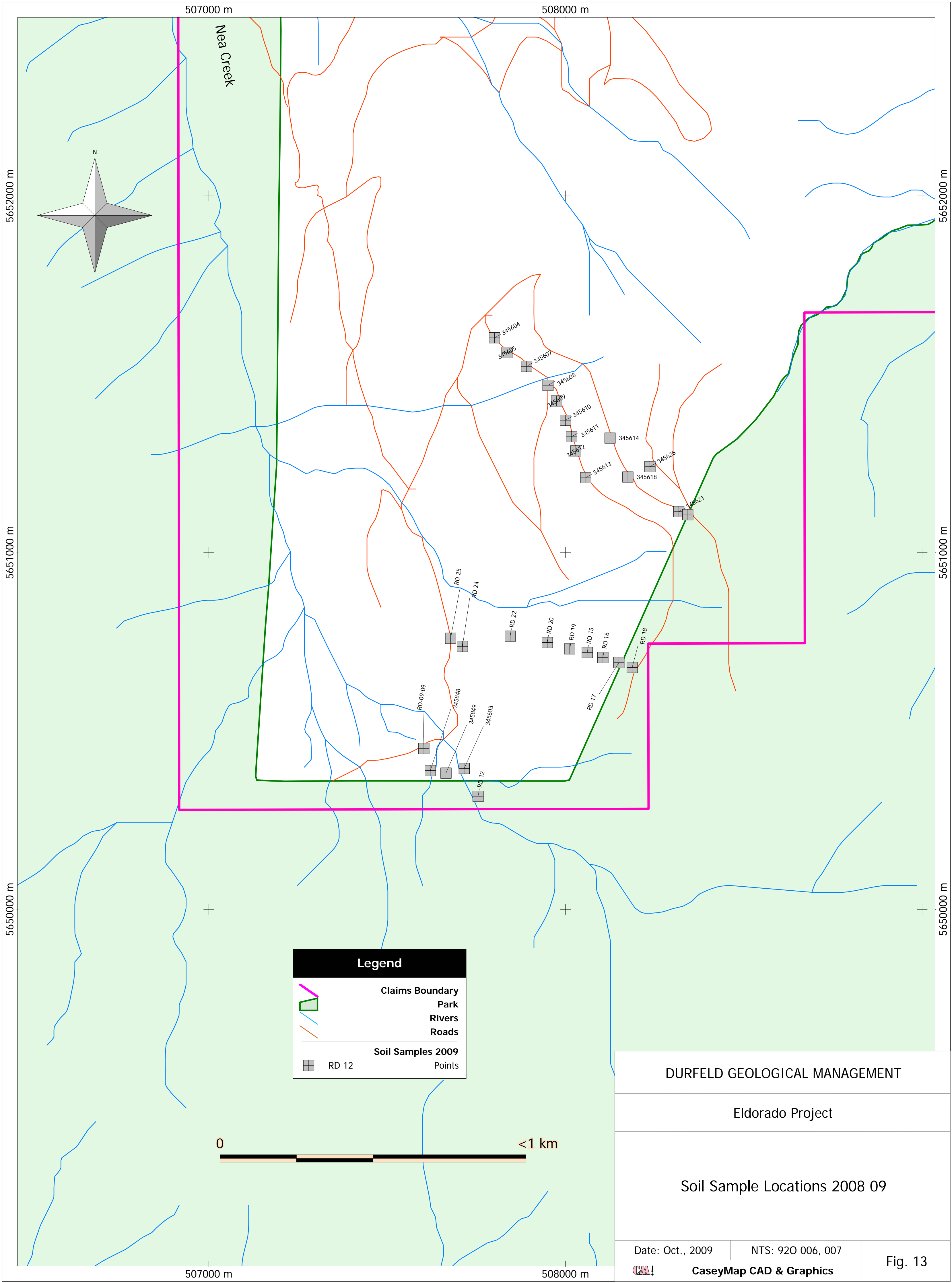
Eldorado Project

Silt Sample Locations 2008/09

Date: Oct., 2009 NTS: 920 006, 007

CaseyMap CAD & Graphics

Fig. 12



507000 m

508000 m

5652000 m

5652000 m

5651000 m

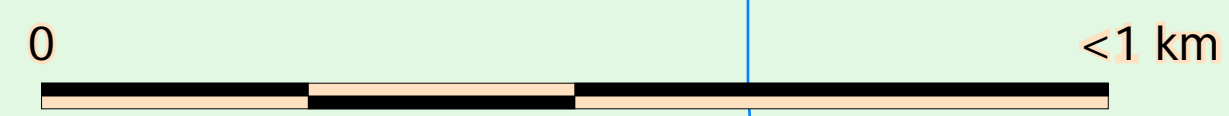
5651000 m

5650000 m

5650000 m

507000 m

508000 m



Legend

- Claims Boundary
- Park
- Rivers
- Roads

Soil Samples 2009

- RD 12 Points

DURFELD GEOLOGICAL MANAGEMENT

Eldorado Project

Soil Sample Locations 2008 09

Date: Oct., 2009

NTS: 920 006, 007



CaseyMap CAD & Graphics

Fig. 13