

BC Geological Survey  
Assessment Report  
29809

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VANCOUVER, B.C.

ASSESSMENT REPORT

ON

DIAMOND DRILLING

AURORA AREA

Mineral Tenure 505064

Moyie Lake Area, British Columbia

FORT STEELE MINING DIVISION

TRIM MAP 82G.021

UTM 5455990N 583627E

For

St. Eugene Mining Corporation

701 - 675 West Hastings St.

Vancouver, B.C., V6B 1N2

By

Peter Klewchuk, P. Geo.

March, 2008

29809  
GEOLOGICAL SURVEY BRANCH

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## 1.0 INTRODUCTION

### 1.10 Location and Access

The Aurora area is part of St. Eugene Mining Corporation's Moyie claim block and is located about 25 kilometers south of Cranbrook, B.C. just west of lower Moyie Lake and the community of Moyie (Figures 1 & 2). Access is via Highway 3/95 south of Cranbrook and roads which service recreational properties on the west side of lower Moyie Lake.

### 1.20 Property

The Aurora area is part of a larger block of claims in the Moyie Lake area held by St. Eugene Mining Corporation Ltd. This claim block surrounds the St. Eugene Mine block of claims held by Teck-Cominco and covers extensions of the St. Eugene mineralized structure to both the west-northwest and east-southeast.

### 1.30 Physiography

The Aurora area is located just west of lower Moyie Lake in the McGilvray Range of the Purcell Mountains. Topography is of glacially rounded mountain ridges and tops with generally steep-sided stream valleys. Elevations in the area range from 928 meters at Moyie Lake to about 2075 meters. A mixed forest cover consists mainly of pine, fir and larch with some parts of the property recently logged.

### 1.40 History of Previous Work

The Aurora area on the west side of Lower Moyie Lake covers a number of old prospects including the Aurora, Guindon and Larson. Minor production from the Aurora and Guindon deposits is reported as 3300 tons at a grade of 7.7% Pb, 'said to average' 18.5% Zn and 3.25 oz/ton Ag (Walker, 1958).

### 1.50 Scope of Present Program

A single drill hole was completed in the Aurora area in May 2007 to test the western extension of the Aurora sulphide vein system. The hole was drilled to a total depth of 242.6 meters.

## 2.00 GEOLOGY

The rocks which underlie the Aurora area are of the upper and middle Aldridge Formation and consist of fine grained clastics of turbidite affinity. The area has been most recently mapped by

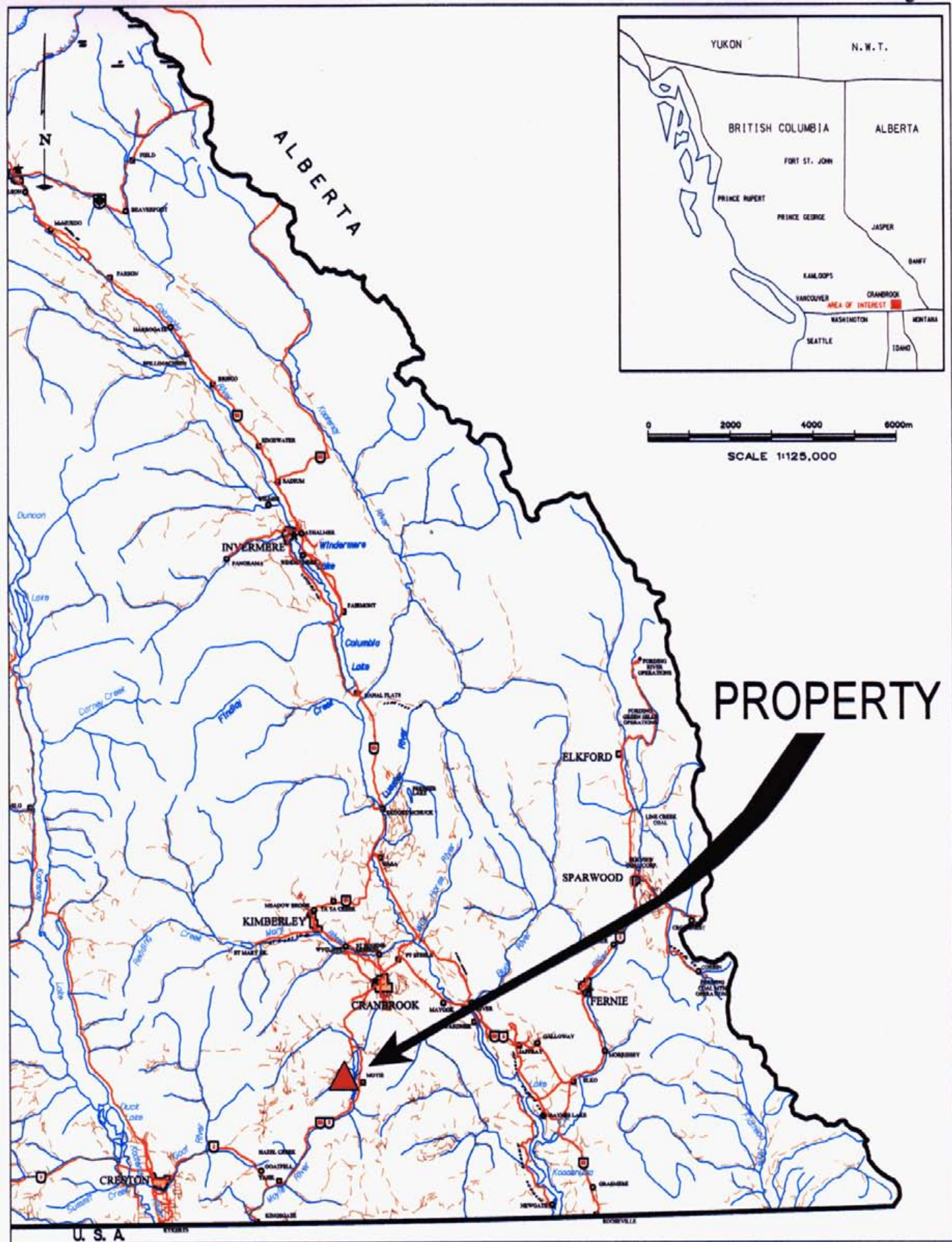
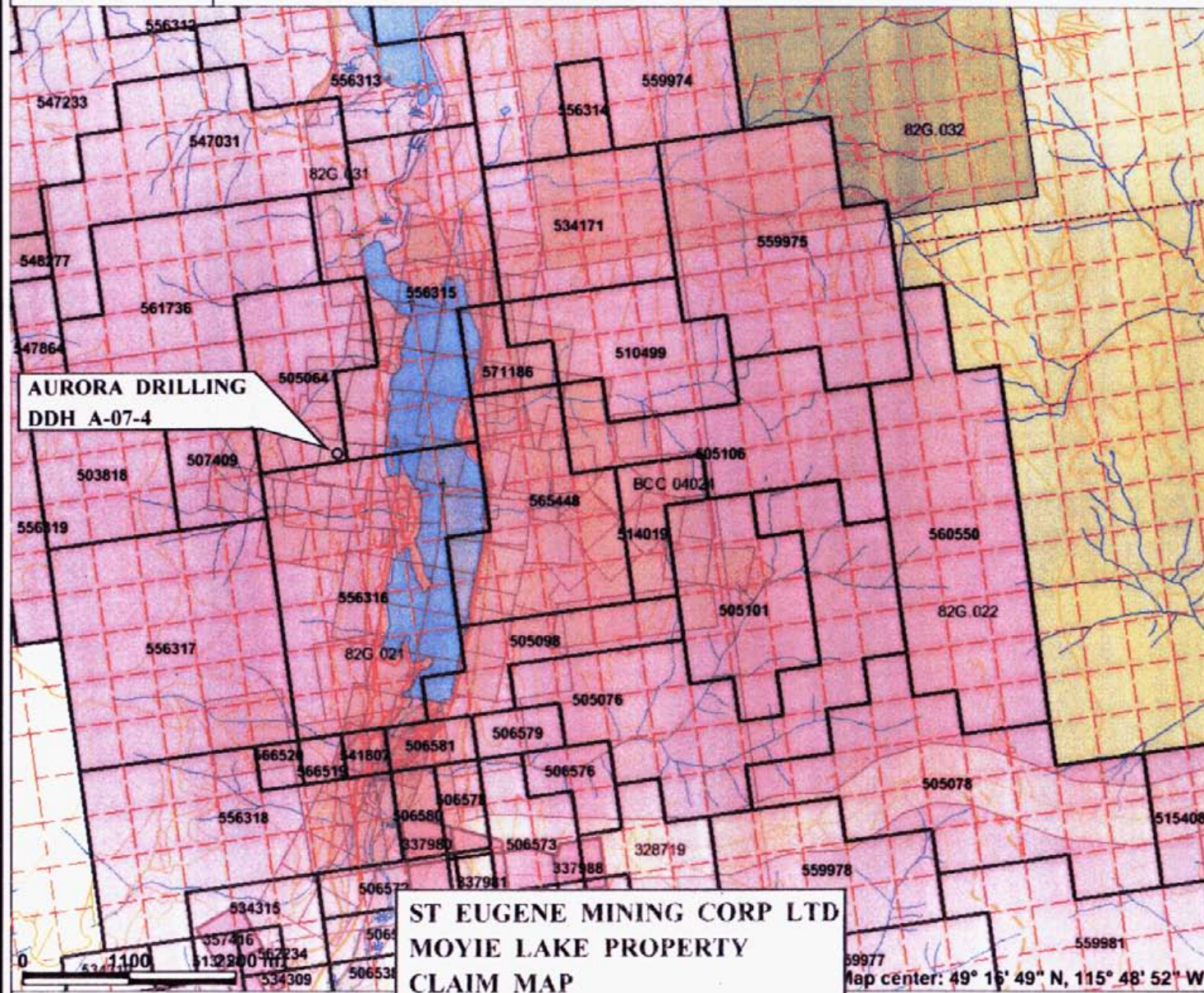


Figure 1. St. Eugene Mining Corp. Property Location Map

# Internet Mapping Framework



**AURORA DRILLING  
DDH A-07-4**

**ST EUGENE MINING CORP LTD  
MOYLE LAKE PROPERTY  
CLAIM MAP**

**Showing Location of Drilling  
Figure 2**

This map is a user generated static output from an Internet reference only. Data layers that appear on this map may otherwise reliable. THIS MAP IS NOT TO BE USED FOR

### Legend

- Indian Reserves
- National Parks
- Parks
- MTO Grid (MTO)
- 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
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)
- Airfield
- Airport
- Airstrip
- AirportAbandoned
- Ferry Route
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes

Scale: 1:62,215

Hoy (1982). The Aurora area is on the western flank of a north-plunging anticline whose axis trends NNE and runs through lower Moyie Lake. Bedding dips gently to moderately west. The area west of lower Moyie Lake hosts the Aurora, Guindon and Larson lead-zinc-silver vein systems which have a similar WNW trend as the St Eugene vein system east of the Lake. The Aurora vein is considered the western extension of the St. Eugene structure.

### 3.00 DIAMOND DRILLING

One NQ diameter diamond drill hole (A-07-4) was completed to a depth of 242.6 meters in May of 2007 in the Aurora area of St Eugene mining Corporation's Moyie Lake claim block, on the west side of lower Moyie Lake. Location of the drill hole is shown in Figure 2; a cross-section of the drill hole is in Figure 3; the complete drill log is in Appendix 1. Selected drill core was sampled by splitting, placed in plastic sample bags and shipped to ALS Chemex Laboratories (ALS Chemex Ltd.) at 212 Brooksbank Avenue, North Vancouver, B.C. where it was analyzed for a 33 element ICP package by standard analytical procedures. Drill core analyses are in Appendix 2.

Diamond drill hole A-07-4 was drilled from the end of a newly constructed drill access trail and drilled at a dip of  $-46^{\circ}$  toward an azimuth of  $353^{\circ}$  to intersect the westward extension of the Aurora sulphide vein system. The hole was drilled to a depth of 242.6 meters and intersected Middle Aldridge Formation siltstones, argillites and impure quartzites for its entire length. A narrow 75 cm vein zone consisting of quartz, calcite and actinolite with minor pyrrhotite, pyrite and sphalerite at a depth of 204 meters may be the strike extension of the Aurora vein zone. Minor sphalerite and chalcopyrite also occur along healed fractures at 195 meters depth.

### 4.00 CONCLUSIONS

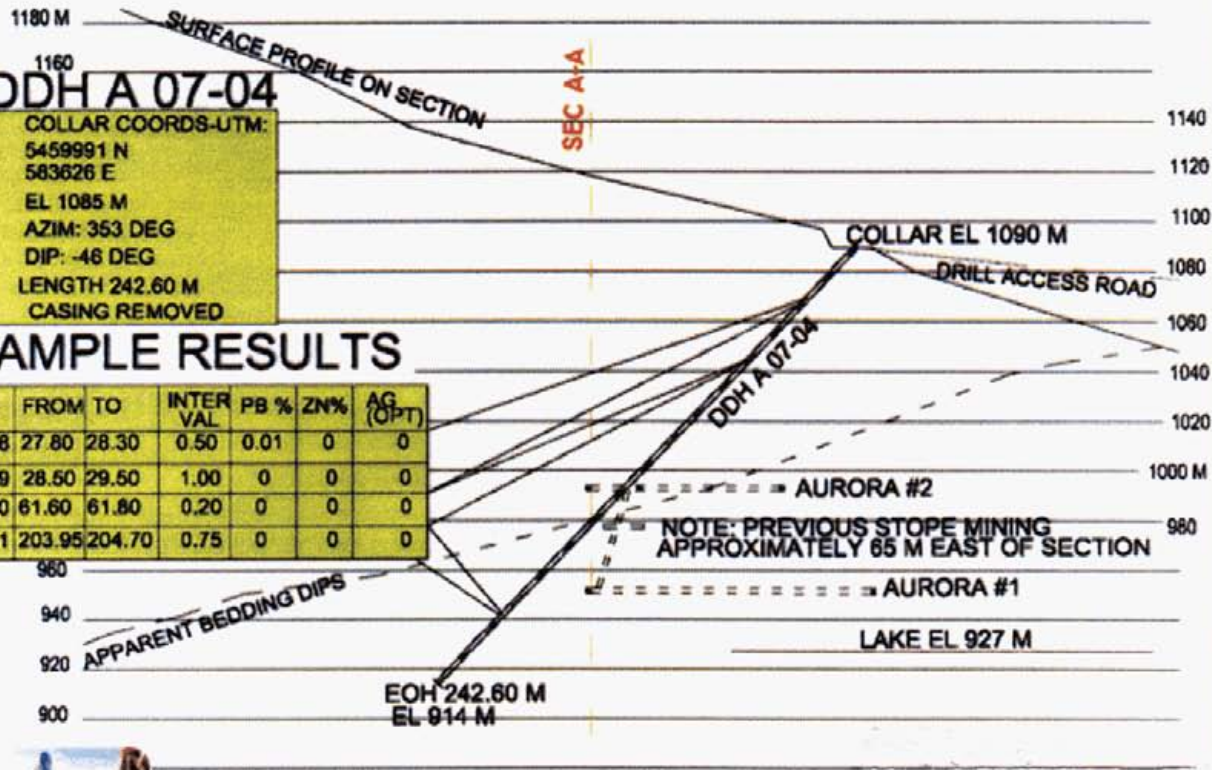
Diamond drill hole A-07-4 intersected Middle Aldridge siltstones, argillites and impure quartzites for its entire length of 242.6 meters. A narrow 75 cm wide quartz-calcite-actinolite vein with minor pyrrhotite, pyrite and sphalerite at 204 meters depth may be the western extension of the Aurora vein system.

### 5.00 REFERENCES

- Hoy, T., and Diakow, L., 1982; Geology of the Moyie Lake area; Preliminary map No. 49; British Columbia Ministry of Energy, Mines and Petroleum Resources.
- Walker, W. B. G., 1958 St. Eugene Mining Corp. Ltd. Moyie Project. Cominco Ltd. Western District Exploration report.

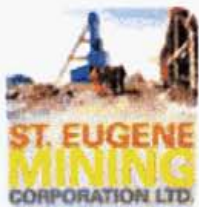
# AURORA-GUINDON TARGET

## VERTICAL SECTION THROUGH DD HOLE A 07-04

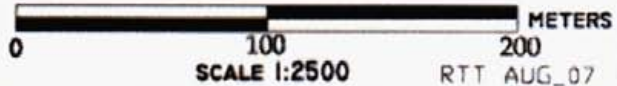


### SAMPLE RESULTS

#	FROM	TO	INTER VAL	PB %	ZN%	AG (OPT)
81958	27.80	28.30	0.50	0.01	0	0
81959	28.50	29.50	1.00	0	0	0
81960	61.60	61.80	0.20	0	0	0
81961	203.95	204.70	0.75	0	0	0



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**ST EUGENE MINING CORP LTD  
 CROSS SECTION DDH A-07-4  
 Figure 3**

## 6.00 STATEMENT OF EXPENDITURES

Diamond Drilling; SCS Diamond drilling Ltd. 242.6 meters @ \$139.80/meter Includes direct and indirect drilling costs; drilling, lubricants, materials costs, lodging and truck	\$34,027.08
Geologist; P. Klewchuk; access trail survey, trail construction supervision, drill layout, drilling supervision and core logging; 11 days @ \$400/day	4,400.00
4X4 truck 9 days @ \$135/day	1,215.00
Field assistant; J Kechnie; transport drill core; 5 days @ \$225/day	1,125.00
4X4 truck 5 days @ \$90/day	450.00
Tracked excavator; construct access trail and drill site; May 16-24, 2007; 34 hours @ \$122/hr	4145.00
D6 cat; move drill, modify drill site; 13 hours @ \$115/hr	1495.00
D6 cat standby; 2 days @ \$125/day	250.00
Lowbeds	1144.90
Core rack at Vine logging facility; materials and construction	900.00
Core sampling; move core to racks; B. Collinson; 1 ½ day	350.00
Vine facility core logging facility rental; 5 days @ \$50/day	250.00
Total	\$49,752.00
12% Administration overhead	5,970.00
TOTAL EXPENDITURE	\$55,722.00

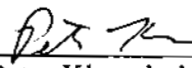



## 7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk, certify that:

1. I am an independent consulting geologist with offices at 1 – 200 Norton Avenue, Kimberley, B.C.
2. I am a graduate geologist with a B. Sc. degree (1969) from the University of British Columbia and an M. Sc. degree (1972) from the University of Calgary.
3. I am a Fellow of the Geological Association of Canada and a member of the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have been actively involved in mining and exploration geology, primarily in the province of British Columbia, for the past 32 years.
5. I have been employed by major mining companies and provincial government geological departments.

Dated at Kimberley, British Columbia this 28<sup>th</sup> day of March, 2008.

  
Peter Klewchuk, P. Geol. Eng. 

## Appendix 1. Diamond Drill Log

<b>Hole No:</b>	A-07-4	<b>Property:</b>	ST. EUGENE
		<b>District:</b>	Fort Steele
<b>Commenced:</b>	May 20, 2007	<b>Owner:</b>	St. Eugene Mining Corp
<b>Completed:</b>	May 23, 2007	<b>Location:</b>	Aurora
<b>Coordinates:</b>	583627E 5455990N	<b>Contractor:</b>	SCS Diamond Drilling
<b>Core Size:</b>	NQ	<b>Total Length:</b>	242.6 m
<b>Azimuth:</b>	353°	<b>Logged by:</b>	P. Klewchuk
<b>Collar Dip:</b>	-46°		
<b>Elevation:</b>	1092.0 m	<b>Date:</b>	May 23, 2007
<b>Tests at:</b>			
<b>Objective:</b>	Test West Extension of Aurora System		

### Meters      Description

0 – 10.9      CASING. No core.

10.9

### Lithologies: Meters

- 10.9 – 18.5 – SILTSTONE, ~15% ARGILLITE - Light grey, medium and thick-bedded; argillite is light-medium grey, thin-bedded.
- 18.5 – 27.6 - ARGILLITE - dark grey. Laminated bands up to ~ 15 cm thick are mixed with thin beds of light-medium grey argillite.
- 27.6 – 29.7    QUARTZ VEIN BRECCIA –irregular light grey quartz veining forms matrix to brecciated angular to sub-angular fragments of laminated dark grey argillite. Minor calcite, actinolite (or chlorite?) and pyrite are common.

### Sampling:

81958	27.8 m – 28.3 m	0.5 m
81959	28.5 m – 29.5 m	1.0 m

- 29.7 – 39.5    ARGILLITE - mainly laminated, dark grey. Weaker healed breccia throughout with quartz, actinolite, calcite and pyrite in veins.
- 39.5 – 48.2    Medium bedded siltstone mixed with est. 25% thin beds of light-medium grey argillite.
- 48.2 – 56.8    ARGILLITE – mainly dark grey, laminated argillite mixed with thin beds of medium grey argillite and est. 10% medium thick siltstone.
- 56.8 – 93.2    SILTSTONE and QUARTZITE – medium and thick-bedded. Only 5-10% argillite beds, mostly near 67.5 m.  
At 61.6 m – 61.8 m - Qtz-actinolite (chlorite?)- pyrite vein at ~80° to c/a and with some included sed fragments.

## DDH: A-07-4

**Meters      Description**

93.2 con't.      **Sampling:**  
81960              61.6 m – 61.8 m      (0.2m)

**Note:** Lost core at 87.1 m and 89.2 m, est. close to 2 m total. Core is more broken from 81.7 m to 90.5 m. Some probable fault gouge at 89.2 m.

- 93.2 – 99.1 ARGILLITE - ~60% dark grey laminated; 25-30% medium grey, thin-bedded with ~10-15% medium thick siltstone.
- 99.1 – 102.8 SILTSTONE and QUARTZITE – thick and medium-bedded; ~15% thin beds of argillite.
- 102.8 – 111.6 ARGILLITE – 75% dark grey, laminated; 25% medium grey and thin-bedded.
- 111.6 – 128.8 SILTSTONE and QUARTZITE - ~10% dark grey laminated argillite.
- 128.8 – 130.7 ARGILLITE – laminated, dark grey.
- 130.7 – 140.4 SILTSTONE and QUARTZITE – 130.7 m – 132.1 m is ~40% thin, light-medium grey argillite.
- 140.4 – 146.2 ARGILLITE – mostly laminated, dark grey; est. 10% light-medium grey, thin beds and 5-10% medium-thick siltstone beds.
- 146.2 – 174.2 SILTSTONE and QUARTZITE – Medium and thick-bedded; 15-20% thin-bedded argillite.
- 174.2 – 175.7 ARGILLITE – mainly laminated, dark grey.
- 175.7 – 203.95 SILTSTONE and QUARTZITE – medium and thick-bedded; ~15% thin-bedded and laminated argillite.
- 203.95 – 204.7 VEIN ZONE; QUARTZ-CALCITE-ACTINOLITE/CHLORITE – PO-PY-minor ZnS.  
Upper contact at ~65° to c/a; lower contact at 25° to c/a. Mottled texture with est. 50% Qtz, 20% included seds, 10% calcite, 10% chlorite-actinolite and 10% po.

**Sampling:**              203.95  
81961              20.95 m – 204.7 m              0.75m

- 204.7 – 213.4 SILTSTONE and QUARTZITE – medium and thick-bedded; ~5% thin beds argillite.
- 213.4 – 217.3 ARGILLITE – thin-bedded, medium grey; ~5% thin beds siltstone.
- 217.3 – 222.8 SILTSTONE and QUARTZITE - ~10% thin beds of argillite.
- 222.8 – 227.7 ARGILLITE – 85% dark grey, laminated; 15% medium grey, thin-bedded.
- 227.7 – 237.4 SILTSTONE – medium and thick-bedded; 15-20% thin argillite beds.
- 237.4 – 239.0 ARGILLITE – laminated, dark grey.
- 239.0 – 242.62 SILTSTONE – medium and thick-bedded. 241.9 m – 242.62 m is mostly thin-bedded and laminated argillite.

## DDH: A-07-4

Meters	Description
242.62 con't.	<p><b>Bedding:</b> 30° at 11.3 m; 30° at 18.5 m; 33° at 21.5 m; 35° at 25.0 m; 40° at 30.5 m; 26° at 32.5 m; 40° at 36.0 m; 30° at 40.0 m; 31° at 44.0 m; 17° at 45.5 m; 15° at 48.5 m; 14° at 52.0 m; 22° at 53.7 m; 15° at 56.5 m; 16° at 61.0 m; 25° at 68.0 m; 31° at 73.0 m; 30° at 82.0 m; 25° at 93.0 m; 21° at 96.0 m; 23° at 100.0 m; 25° at 103.5 m; 25° at 105.5 m; 22° at 110.5 m; 26° at 115.5 m; 35° at 120.5 m; 30° at 125.5 m; 29° at 129.0 m; 27° at 132.0 m; 33° at 138.5 m; 30° at 144.5 m; 28° at 151.0 m; 29° at 156.5 m; 28° at 159.5 m; 26° at 168.0 m; 30° at 175.5 m; 28° at 184.0 m; 30° at 187.0 m; 28° at 193.5 m; 25° at 199.0 m; 27° at 209.0 m; 25° at 213.5 m; 26° at 215.0; 20° at 218.5 m; 23° at 223.5 m; 27° at 226.5 m; 28° at 230.5; 30° at 235.0 m; 28° at 238.0 m; 30° at 242.0 m.</p> <p><b>Features:</b> At 15.2 m – 15.3 m – crushed core, at 30° to c/a, oblique to bedding, central 2 cm wide quartz vein. Strongly rusty, dark brownish; may be oxidized sulfides; re-orienting core indicates St. Eugene/Aurora trend.</p> <p>At 25.0 m, 5 cm wide bedding-parallel crushed, oxidized zone; minor fault.</p> <p>At 25.1 m to 47.2 m, healed breccia of varying intensity; numerous quartz veins 1 mm to ~ 1 cm at about 60° to c/a. Some more irregular, thicker quartz veins, pyrite veinlets and actinolite/chlorite veins are also present. Vein orientation ranges from 0° to 90° to c/a. Bedding is slightly offset on numerous cross-cutting fractures.</p> <p>At 47.4 m narrow 3 mm wide shear at 33° to c/a cuts bedding at shallow angle and displaces bedding at least 6 cm.</p> <p>55.8 m – 56.7 m – series of quartz/pyrite/actinolite (or chlorite) veins up to ~6 mm wide, commonly at ~70° to c/a. Calcite vein at &lt;5° to c/a, near 55.8 -56.2 m.</p> <p>61.6 m – 61.8 m – quartz vein described under lithology above.</p> <p>69.6 m – 70.0 m – beds slightly disrupted along fractures at ~35° -45° to c/a.</p> <p>72.4 m - 77.4 m – scattered thin quartz veins, up to 12 mm thick, with biotite, muscovite, oxidized pyrite.</p> <p>83.75 m to 90.5 m – Zone of broken core; some rubbly. Core loss at 87 m and 89 m; total core loss ~6 m. Evidence of fault breccia/gouge at 89 m; fault zone.</p> <p>At 99.8 – 5 cm wide fault zone at 26° to c/a. Strongly micaceous with abundant calcite. Adjacent core is weakly brecciated for ~30 cm on each side with thin hairline calcite veinlets.</p>

## DDH: A-07-4

**Meters      Description****Features – con't.**

At 112.2 m – 7 cm wide shear/quartz vein/fault zone at 35° to c/a. Wispy shards of dark grey argillite, quartz veining, pyrite and minor actinolite or chlorite.

At 114.3 m – 8 cm wide quartz vein breccia zone at 45° -70° to c/a. Coincident quartz vein bx on one edge of zone is at ~0° to c/a, extending off cross-cutting zone. Minor chlorite/actinolite.

At 114.35 m – narrow irregular quartz vein, upper contact at 55° to c/a; ~ 5 cm wide.

At 140.3 m – narrow, rusty bedding-parallel zone in broken core, may be minor fault.

141.1 m – 141.7 m – broken, rubbly core.

At approximately 142.4 m – scattered, thin calcite-pyrite veinlets at ~55° to c/a. Strike is WNW, near-vertical dip.

Near 144.6 m – few bedding-parallel calcite-pyrite veinlets.

At 195.0 m – healed fractures at 10° -20° to c/a with calcite, actinolite, pyrite, ZnS and very minor Cpy.

203.95 – 204.7 – vein breccia zone; previously described under lithology.

242.6 m      END OF HOLE.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ST. EUGENE MINING CORP  
701 - 675 WEST HASTINGS AVE.  
VANCOUVER BC V6B 1N2

Page: 1  
Finalized Date: 16-JUN-2007  
This copy reported on 3-OCT-2007  
Account: STEUGE

## CERTIFICATE VA07059853

Project:

P.O. No.: 67

This report is for 35 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 11-JUN-2007.

The following have access to data associated with this certificate:

PETER KLEWCHUK  
ROLAND TRENAMAN

ROLAND TRENAMAN  
R. TRENAMAN

R. TRENAMAN

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rod w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS

To: ST. EUGENE MINING CORP  
ATTN: PETER KLEWCHUK  
1-200 NORTON AVE  
KIMBERLEY BC V1A 1X9

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver

Appendix 2. Drill Core Analyses



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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Page: 2 - A  
Total #. pages: 2 (A - C)  
Finalized Date: 16-JUN-2007  
Account: STEUGE

## CERTIFICATE OF ANALYSIS VA07059853

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
B081958		1.40	0.3	1.64	7	<10	90	0.5	<2	0.14	<0.5	18	30	42	3.56	<10
B081959		3.46	<0.2	1.46	20	<10	60	<0.5	<2	0.31	<0.5	13	23	30	3.49	<10
B081960		0.62	<0.2	1.71	2	<10	30	<0.5	2	4.50	<0.5	21	30	153	4.67	<10
B081961		2.94	0.2	1.78	7	<10	20	<0.5	<2	3.96	1.8	31	11	217	9.81	<10
B081483		2.02	<0.2	0.63	105	<10	60	2.0	3	0.98	1.2	18	10	28	5.78	<10
B081484		0.78	6.2	0.15	18	<10	10	<0.5	14	0.09	44.4	8	11	194	0.73	<10
B081485		2.26	<0.2	0.49	21	<10	50	0.6	<2	0.33	<0.5	8	12	4	1.45	<10
B081486		1.30	<0.2	0.11	5	<10	10	0.5	<2	0.11	<0.5	4	19	6	1.44	<10
B081487		1.56	<0.2	0.41	34	<10	30	<0.5	2	1.38	<0.5	6	10	7	3.01	<10
B081488		1.50	14.3	0.88	137	<10	40	1.4	5	0.54	187.5	26	6	201	2.97	<10
B081489		1.28	1.4	1.07	29	<10	50	0.8	<2	1.25	13.8	8	12	47	1.90	<10
B081490		2.30	0.9	0.92	9	<10	40	0.6	2	1.05	3.0	4	8	47	1.44	<10
B081491		2.22	0.8	1.47	12	<10	50	0.6	2	0.30	7.5	10	8	73	2.32	<10
B081492		2.66	1.6	1.37	65	<10	50	0.5	2	0.21	7.6	19	9	108	2.49	<10
B081493		2.72	1.6	1.76	11	<10	50	0.5	2	0.46	6.2	13	12	127	3.26	<10
B081494		2.48	2.3	1.57	34	<10	40	0.5	2	0.47	15.4	17	12	280	2.87	<10
B081495		2.34	35.6	2.59	14	<10	10	<0.5	<2	0.90	171.0	18	24	213	6.60	10
B081496		2.10	>100	1.45	20	<10	<10	<0.5	2	0.37	275	34	13	150	5.11	<10
B081497		1.32	>100	1.63	<2	<10	10	<0.5	2	0.18	374	30	27	164	5.26	<10
B081498		1.20	11.4	2.32	7	<10	40	<0.5	<2	0.11	5.8	12	16	102	4.21	10
B081499		1.60	98.1	1.95	<2	<10	40	<0.5	2	0.91	40.3	17	17	18	3.36	<10
B081500		1.04	27.7	1.98	<2	<10	30	<0.5	<2	0.51	156.5	21	14	66	3.88	<10
B081951		0.80	3.5	2.51	9	<10	40	<0.5	<2	2.51	37.4	12	29	58	4.39	10
B081952		1.02	1.0	5.68	50	<10	20	0.5	<2	0.34	3.1	19	34	95	11.45	10
B081953		0.78	8.0	2.36	38	<10	50	0.5	5	0.17	4.6	21	19	29	4.15	10
B081954		2.16	41.4	3.76	2	<10	<10	<0.5	4	2.42	85.9	16	21	75	8.39	10
B081955		2.14	23.5	3.13	5	<10	10	<0.5	2	3.10	34.3	15	18	84	6.70	10
B081956		2.26	1.9	1.09	30	<10	30	<0.5	2	1.50	22.1	30	8	51	2.66	<10
B081957		0.94	3.4	0.70	48	<10	10	2.5	<2	6.01	39.6	24	6	72	4.42	10
B081477		1.58	2.3	0.44	47	<10	30	0.6	<2	0.35	25.2	9	5	63	1.66	<10
B081478		0.54	45.5	0.18	591	<10	10	0.5	5	0.34	204	33	9	963	3.10	<10
B081479		2.92	1.3	0.52	20	<10	30	0.7	2	0.14	3.9	12	7	103	2.22	<10
B081480		1.60	<0.2	0.75	12	<10	20	<0.5	2	0.07	<0.5	6	12	11	1.65	<10
B081481		0.24	<0.2	4.28	4	<10	130	0.6	3	0.03	<0.5	9	16	28	7.89	10
B081482		0.48	<0.2	1.11	<2	<10	50	<0.5	2	0.08	<0.5	10	15	33	3.13	<10



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## CERTIFICATE OF ANALYSIS VA07059853

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	Ca	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	
B081958	<1	0.74	20	0.64	340	3	0.03	29	360	19	0.80	<2	2	13	<20	
B081959	<1	0.58	10	0.65	584	2	0.05	18	260	21	0.55	<2	3	25	<20	
B081960	<1	0.38	10	0.75	954	<1	0.03	40	170	14	0.44	<2	3	114	<20	
B081961	<1	0.51	10	0.72	2250	<1	0.02	35	70	60	4.61	<2	3	83	<20	
B081483	<1	0.41	20	0.17	1640	2	0.02	41	410	83	1.23	29	2	56	<20	
B081484	<1	0.08	10	0.02	154	<1	0.02	9	50	5000	0.52	173	<1	8	<20	
B081485	<1	0.34	30	0.10	622	<1	0.01	9	190	37	0.09	2	1	20	<20	
B081486	<1	0.06	10	0.02	422	1	0.01	6	10	45	0.08	<2	1	5	<20	
B081487	<1	0.23	20	0.58	492	1	0.06	12	240	28	0.30	5	5	108	<20	
B081488	2	0.38	20	0.17	310	2	0.02	22	210	>10000	2.58	16	2	38	<20	
B081489	<1	0.50	20	0.24	371	1	0.02	14	190	1015	0.31	<2	2	48	<20	
B081490	<1	0.43	20	0.20	267	2	0.02	15	190	846	0.31	<2	1	42	<20	
B081491	<1	0.54	40	0.48	129	<1	0.02	23	430	684	0.71	3	1	12	20	
B081492	<1	0.53	40	0.44	119	1	0.02	28	280	1385	0.77	3	2	11	20	
B081493	<1	0.54	30	0.66	181	3	0.02	21	260	1115	1.00	6	2	16	<20	
B081494	<1	0.34	20	0.66	205	4	0.02	18	560	2320	0.70	6	2	12	<20	
B081495	<1	0.09	<10	1.36	530	<1	0.02	16	160	>10000	3.71	57	2	16	<20	
B081496	2	0.03	<10	0.71	286	<1	0.01	10	70	>10000	6.94	277	1	11	<20	
B081497	1	0.12	10	0.78	274	<1	0.02	11	100	>10000	8.02	240	2	5	<20	
B081498	<1	0.53	30	0.96	243	1	0.02	14	340	>10000	0.45	16	2	9	<20	
B081499	<1	0.50	30	0.72	197	<1	0.03	23	250	>10000	2.30	107	2	17	<20	
B081500	<1	0.41	20	0.79	251	<1	0.02	13	220	>10000	2.67	37	2	14	<20	
B081951	<1	0.46	30	1.00	302	<1	0.02	15	260	3540	0.76	3	3	31	<20	
B081952	<1	0.29	10	2.67	776	<1	0.02	33	210	922	0.41	<2	10	16	<20	
B081953	<1	0.50	50	0.96	250	1	0.02	26	260	8590	0.44	8	2	12	20	
B081954	1	0.06	10	1.98	530	<1	0.01	24	170	>10000	2.86	42	4	40	<20	
B081955	1	0.09	10	1.61	392	1	0.01	21	160	>10000	1.65	23	3	45	<20	
B081956	<1	0.31	30	0.50	128	2	0.02	25	330	1710	1.00	7	1	23	<20	
B081957	<1	0.16	10	0.39	177	2	0.02	26	230	3160	1.85	16	3	78	<20	
B081477	<1	0.25	10	0.06	207	1	0.01	18	190	2750	1.05	4	1	16	<20	
B081478	2	0.09	<10	0.05	408	<1	0.01	16	50	>10000	3.54	31	<1	8	<20	
B081479	<1	0.30	20	0.06	371	1	0.01	29	250	830	0.98	2	1	14	<20	
B081480	<1	0.17	60	0.34	187	1	0.03	14	250	60	0.11	<2	1	9	<20	
B081481	<1	2.65	10	2.05	606	<1	0.03	41	50	47	0.17	<2	7	6	<20	
B081482	<1	0.66	10	0.45	267	1	0.02	8	50	39	0.38	<2	1	6	<20	





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## CERTIFICATE OF ANALYSIS VA07059853

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Pb-AA46	Zn-AA46
	Analyte	Ti	Ti	U	V	W	Zn	Ag	Pb	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
LOR	0.01	10	10	1	10	10	1	0.01	0.01	
B081958		0.10	<10	<10	19	<10	94			
B081959		0.09	<10	<10	21	<10	97			
B081960		0.04	<10	<10	14	<10	83			
B081961		0.04	<10	<10	12	<10	472			
B081483		<0.01	<10	<10	6	<10	396			
B081484		<0.01	<10	<10	1	<10	7070		0.53	0.74
B081485		<0.01	<10	<10	3	<10	77			
B081486		<0.01	<10	<10	1	<10	56			
B081487		<0.01	<10	<10	5	<10	153			
B081488		<0.01	<10	<10	7	<10	>10000		1.33	3.02
B081489		<0.01	<10	<10	7	<10	2210		0.11	0.24
B081490		0.01	<10	<10	6	<10	534		0.09	0.06
B081491		0.03	<10	<10	8	<10	1920		0.07	0.20
B081492		0.04	<10	<10	11	<10	1945		0.14	0.21
B081493		0.04	<10	<10	12	<10	1590		0.13	0.17
B081494		0.04	<10	<10	15	<10	3580		0.25	0.41
B081495		0.02	<10	<10	17	<10	>10000		3.85	4.18
B081496		0.01	<10	<10	11	<10	>10000	175	17.35	6.69
B081497		0.02	<10	<10	11	<10	>10000	145	14.95	9.51
B081498		0.05	<10	<10	16	<10	1480		1.18	0.14
B081499		0.03	<10	<10	13	<10	7850		9.35	0.80
B081500		0.04	<10	<10	12	<10	>10000		3.15	3.59
B081951		0.05	<10	<10	17	<10	8090		0.36	0.89
B081952		0.07	<10	<10	52	<10	1160		0.09	0.12
B081953		0.06	<10	<10	17	<10	1055		0.93	0.10
B081954		0.03	<10	<10	28	<10	>10000		4.82	1.87
B081955		0.03	<10	<10	21	<10	7920		2.76	0.89
B081956		0.03	<10	<10	8	<10	5460		0.17	0.61
B081957		<0.01	<10	<10	8	<10	>10000		0.33	1.18
B081477		<0.01	<10	<10	4	<10	4340		0.28	0.44
B081478		<0.01	<10	<10	2	<10	>10000		5.01	3.48
B081479		<0.01	<10	<10	5	<10	747		0.07	0.07
B081480		0.02	<10	<10	7	<10	74			
B081481		0.22	<10	<10	39	<10	210			
B081482		0.07	<10	<10	9	<10	72			