

Analysis Statement of the Hot Spring (Certificate of mineral spring analysis)

Name of applicant : Koganezaki Furofushi Onsen 15-1 Shimokiyotaki Henashi-aza, Fukaura-machi oaza, Nishi-Tsugarugun

Name of the hot spring : Shimokoganezaki hot spring

Location of the hot spring :15-1 Shimokiyotaki Henashi-aza, Fukaura-machi oaza, Nishi-Tsugarugun

1. Examination and test results at location

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|---|--|
| (1) Examiner : Sato, Manabu | (2) Date of examination: June 29th, 2007 |
| (3) Water temperature : 53.9 (Ta 23.5) | (4) Amount of discharge : 238 /min(pumped up with motor) |
| (5) Perceptive test : Clear and colorless | (6) pH level : 6.38 |

2. Test data at laboratory

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|---|---|
| (1) Examiner : Tsuboya, Hisashi
(Sanitary Inspection Center) | (2) End of analysis : July 20th, 2007 |
| (4) Density : 1.0167g/cm ³ (20) | (3) Perceptive test : Clear and colorless |
| (6) Residue on evaporation : 24.27g/kg(180) | (5) pH level : 6.68 |
| | (7) Electric conductivity : 36700µS/cm |

3. Components of 1kg mine sample : Quantity and Composition

(1) Cation

Component	mg	m val	m val%
Lithium ion	3.80	0.55	0.13
Sodium ion	6182.00	268.90	64.21
Potassium ion	307.50	7.86	1.88
Ammonium ion	2.40	0.13	0.03
Magnesium ion	1063.00	87.47	20.89
Calcium ion	1063.00	53.04	12.66
Aluminium ion	0.00	0.00	0.00
Manganese ion	0.20	0.00	0.00
Ferrous ion	22.90	0.82	0.20
Sum of cation	8645.00	418.80	100.00

(1) Anion

Component	mg	m val	m val%
Fluorine ion	0.20	0.01	0.00
Chloride ion	13080.00	368.90	89.12
Bromide ion	34.50	0.43	0.11
Sulfate ion	0.80	0.00	0.00
Iodide ion	1286.00	26.78	6.47
Phosphate ion	0.90	0.01	0.00
Hydrogen ion	1086.00	17.80	4.30
Carbonate ion	0.00	0.00	0.00
—	—	—	—
Sum of anion	15490.00	414.00	100.00

(3) Free components

Undissociated components

Component	mg	m mol
Metasilicic acid	245.70	3.15
Metaboric acid	25.20	0.58
Metaarsenite	0.50	0.00
Sum of undissociated components	271.40	3.73

(4) Other minor components

Copper ion	<0.01 mg/kg
Lead ion	<0.01 mg/kg
Cadmium	<0.005 mg/kg
Total mercury	<0.0005 mg/kg
Zinc spelter	0.011 mg/kg

Dissolved matter (excluding component) : 24.41/kg

Dissolved gas components

Component	mg	m mol
Free carbon dioxide	302.70	6.88
Free hydrogen sulfide	—	—
Sum of dissolved gas components	302.70	6.88

Total components : 24.71g/kg

4. Nature of spring : Ferruginous-sodium-magnesium-strong salt springs (Highpertonc-neutral hot spring)

5. For contradiction and indication, read the attached sheet.

July 25th, 2007

Registry number: Issue no.2, Aomori
1-16-17 Namiuchi Aomori-City
Corporation: Aomori Pharmaceutical Association
Sanitary Inspection Center
Director: Kawamura, Hitoshi