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ANALYSIS

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SANDWICH MINERAL SPRINGS.

SANDWICH, ONTARIO.

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This Springs, though lately discovered, is becoming well known, and is already a great favorite for the many cures its waters have wrought and effected. The effect of the use of its waters, in many obstinate diseases, has been so decided that the public are constrained to acknowledge its merits, and award it a high place among the Mineral Springs, in this country. In setting forth the virtues of this spring, it is deemed necessary to give to the public the analysis of its waters, confident that no conscientious physician would be willing to testify to its merits, without a knowledge of its properties.

# ANALYSIS.

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## COMPOSITION OF SANDWICH MINERAL SPRINGS SULPHUR WATER.

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Temperature, . 53		Density, . 1003.00	
		<small>In 100 grains cubic centimeters</small>	<small>In wine pint cubic inches</small>
Sulphureted hydrogen, . . . . .		1.640	4.921
Carbonic acid gas, . . . . .			.125
Nitrogen, . . . . .			.090

### SOLID INGREDIENTS.

		<small>Grains in wine pint</small>
In one wine pint, . . . . .		51.20
Residue by evaporation, pure water, . . . . .		9240.80
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		9292.00

### INGREDIENTS BY ANALYSIS.

		<small>In 1,000 parts</small>
Carbonate lime, . . . . .		1.980
“       magnesia, . . . . .		.980
“       soda, . . . . .		2.500
Sulphaté lime, . . . . .		4.680
Chloride calcium, . . . . .		.002
“       magnesium, . . . . .		4.920
“       sodium, . . . . .		.020
Silica, . . . . .		.004
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Total salts, . . . . .		14.886

## CHEMICAL CHARACTERISTICS QUALITATIVE.

The water is faintly acid from sulphureted hydrogen and free carbonic acid, as is usual with most sulphur springs, but it is alkaline after being boiled, showing the presence of alkaline carbonates. In this respect it resembles the Alkaline Sulphur Springs at Gettysburg.

Carbonic acid is held in the water, and is the ingredient which prevents the earthy carbonates from becoming insoluble. Nitrogen gas, is also, held in solution, as is known by the different gasses given off from the boiling water, all being absolved, except this one, by a solution of potassa.

On the medical effect of sulphur water, Dr. Bell says: "No visitor at a sulphur spring, can gorge himself with water for experiment or amusement with impunity. In fact few remedies are so diffusive in their action on the animal frame, or as searching or attractive. A person in full health may use the water in moderation, without injury or even with benefit; but the invalid should observe caution, and if possible take such water under the advice of a physician."

The employment of the water is twofold, by drinking and by the bath. In cases of chronic rheumatism where revulsive action is required for the relief of internal organs, the bath acts marvelously, and with few exceptions the temperature must be raised to the tepid or warm degree.

The action of sulphur water upon the livra resembles mercurial medicines in effect. The benefit to be obtained from the water in cutaneous diseases is well known. They have been employed successfully in chronic rheumatism, and in some forms of dyspepsia, in scrofula, in bronchitis and in

## SANDWICH MINERAL SPRINGS WATER.

the mitigation of the *asthma*. With respect to the latter disease, the greatest caution is to be used in employing sulphur water, as, should there be confirmed consumption, sulphur remedies would only hasten the progress of the disease.

These waters, are also useful in some diseases of the urinary organs, and especially in some ailments peculiar to the female sex.

There is one peculiar feature about this water, to which I would direct your attention, and that is, it is strongly alkaloid, and we have here a more potent remedy for rheumatic disorder than if it had been one of the ordinary sulphur springs. I think this spring, on account of its alkalinity, will become quite serviceable in kidney disorders.

Yours &c.,

SAMUEL P. DUFFIELD, Ph. D.

Consulting Chemist.

# SANDWICH MINERAL SPRINGS WATER

does not claim to cure all the diseases that human flesh is heir to, but the following diseases have been permanently cured by the use of the Waters, and many more have received such relief as will warrant a perfect cure.

RHEUMATISM

SCROFULA

NEURALGIA

PARALYSIS

LIVER COMPLAINT

ERYSIPELAS

DYSPEPSIA

SALT RHEUM

PILES

COSTIVENESS

SYPHILIS

MERCURIAL SORES

CUTANEOUS DISEASES

FEMALE COMPLAINTS

GENERAL AND LOCAL DEBILITY

LOCATION OF THE SPRINGS.

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The Springs are located on the banks of the Detroit River, at the village of Sandwich, C. W., and are only two miles from the city of Detroit. The location of the Springs, the pure air, the beautiful scenery on the River, and close proximity to the beautiful and thriving city of Detroit, make it an attractive field for the tourist and health-seeker in addition to the inestimable boon provided by nature in the healing properties of its waters.

Persons wishing for information about the Springs, by addressing their letters or orders to JOHN P. CLARK, Esq., Dry Dock, Detroit, will receive prompt attention.

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DIFFERENT ROUTES TO THE SPRINGS.

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Parties from Detroit wishing to visit the Springs with carriages, can take the ferry from the foot of Woodward Avenue to Windsor, and the drive from Windsor along the banks of the River two miles to the Springs; is one of the finest in the country.

Parties not wishing to go to the Springs by carriage, can take the Fort Street Railway to the Rail Road Dock, where they will find in waiting the fleet steam yacht MARY A. SOUTER, which will land them at the Sandwich Dock, and omnibuses will take them to the Springs.

DETROIT, December 28, 1868.

DEAR SIR—As the medicinal properties, and the benefits arising from the use of the Sulphur Wells water of Sandwich, Canada, are as yet little known. I feel it a duty to mankind to assist in making known their worth. Hearing that the Company owning the property intend publishing a circular, I send you the annexed statement (to use if you see proper) of the relief afforded me by the use of the water—both as a bath and drink.

Last July I was attacked with dyspepsia in a very severe form, so that I could not rest day or night, and lost all relish for food; whatever I ate soured in my stomach, and I became very weak and emaciated. A great many "certain cures" were tried without any relief or apparent benefit, and I became very disheartened and almost unfit for business, when a happy suggestion of some of my friends induced me to try the efficacy of the Sandwich Water. Relief was instantaneous, and I continued to use it with the best effect. Ten days from the time of its first application, I was a different man. Until the inclemency of the weather prevented, I have not been without it—trying it for other disabilities with great promise of a radical cure. If my expectations are realized, will further inform you.

Almost every fall and winter, during damp days, I have been troubled with rheumatic pains in my joints; this year these pains have not reappeared, and I strongly believe it is by the use of this water that I am spared their annoyance.

Respectfully Yours &c.,

JAMES S. STRADIRON.

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DETROIT, April, 25, 1869.

DEAR SIR—This is to certify that I have used the Sandwich Mineral Springs waters last winter. When I commenced to use the water I was suffering with a severe attack of rheumatism. My general health now is good, and the rheumatic pains have entirely left me. I can recommend the use of the waters to all who are suffering with rheumatism.

BENJAMIN BRISCOE,

Master Machinist, D. & M. R. R.

DETROIT, May 8, 1869.

DEAR SIR— This is to certify that I have been an invalid for many years, suffering from scrofula and nervous affection. Last fall I commenced to use the waters of the Sandwich Mineral Springs. I have enjoyed better health since I commenced to use the waters than I have experienced in a good many years. My relief I believe to have been caused by using the waters of the Sandwich Mineral Springs.

MRS. C. B. BUGBEE,

Cor. High and Beaubien Sts., Detroit.

WINDSOR, ONTARIO, May 7, 1869.

DEAR SIR—This is to certify that I have been troubled at times, for the past five years, with the gravel. Last summer I had a very severe attack. Having heard of the Sandwich Mineral Springs, I was induced to try the effect of their waters. I found almost instant relief, and to all who are suffering with the same disease, I can truly recommend the waters of the above named Springs.

JAMES FRASER.

WINDSOR, ONTARIO, May 7, 1869.

DEAR SIR—This is certify that I have been afflicted for the last ten years with varicos veins. My sufferings at times have been very great. Last summer my legs were, from my knees down, a raw sore. I have tried all kinds of treatment, but without success. I was induced to try the waters of the Sandwich Mineral Springs. I used the waters only six weeks, and I am now entirely cured; and I am satisfied it was caused by the use of the above named spring waters.

GEORGE ANYAN.

SANDWICH, ESSEX Co., C. W., May 1st, 1869.

DEAR SIR—I have been afflicted for the past ten years with dyspepsia and liver complaint. Have been unable most of the time to do any work, or even to attend to my business.

About two years ago I commenced to use the waters of the Sandwich Mineral Springs, since which time I have been gradually gaining. My health is now good; I can do a day's work with the best. Have gained over forty pounds. My cure was caused by the use of the waters of the Sandwich Mineral Springs.

S. B. GAUTHIER.

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DETROIT, May 1, 1869.

DEAR SIR—I have for many years past been in the habit of visiting the Sulphur Springs of Avon and of Sharon, in New York State, for the benefits which their waters give. Last year I commenced the use of the Sandwich Mineral Springs water, and I do not hesitate to pronounce the waters of the last named spring, to be fully equal, if not superior to the water of the first named springs.

J. F. B. CRANE,

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SANDWICH, May 5th, 1869.

DEAR SIR—This is to certify that I have, and am now, using the waters of the Sandwich Mineral Springs. I commenced to use the waters, about a year ago, for general debility—loss of health and strength. And I will say, for the benefit of those who may be similarly afflicted, that the waters of the Sandwich Mineral Springs, will relieve them.

THERESA ASKINS.

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SANDWICH, ONT., May 5th, 1869.

DEAR SIR—This is to certify that I have been troubled for many years with the disease of the scalp. I have tried all kinds of remedies, but without relief. I was induced by the reports of my neighbors to try the water of the Sandwich Mineral Springs. I am now entirely cured, my hair has ceased to fall out. My cure I ascribe to the use of the waters of the above named springs.

ALEXANDER WILKINSON,  
Provincial Surveyor, Essex Co., C. W.

SANDWICH, Essex Co., May 1st, 1869.

DEAR SIR—I have for many years suffered with dyspepsia. I have tried all kinds of treatment for the disease, but could get no relief. Last summer I was induced by my husband to try the waters of the Sandwich Mineral Springs. Knowing I could be no worse off, if they should do me no good. But to my surprise, and to the astonishment of my friends, I began to recover. I regained my appetite and my strength, and am now able to attend to my household duties. And I am to my friends like one raised from the dead. My cure was caused by using the Sandwich Mineral Springs waters.

MRS. JEMIMA CHALMERS.

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DETROIT, May 1st, 1869.

DEAR SIR—This is to certify that I have been afflicted with neuralgia in my right face, eye and ear. Last summer when I commenced to use the waters of the Sandwich Mineral Springs, I was completely prostrated, and unable to attend to my business. I have recovered my health, do not have any more pain in my head. My cure I believe was caused by using the Sandwich Mineral Springs waters.

RUSSELL MARVIN,

Firm of Shaw & Marvin, Detroit, Mich.

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SANDWICH, May 1st, 1869.

DEAR SIR—This is to certify that my child—an infant one year old—was afflicted from its birth. I called on most of our physicians for help for the little sufferer, but its case, by all, was pronounced incurable—dropsy on the brain. To relieve its sufferings, I commenced to bathe its head and give it to drink, the waters of the Sandwich Mineral Springs. To my surprise and pleasure, the child's health began to recover, and it is now alive—two years old, and as healthy as any child I have got. Its cure I believe was caused by using the waters of the Sandwich Mineral Springs.

MRS. NAPOLEON LADUKE.

SANDWICH, Essex Co., C. W.

DEAR SIR—This is to certify that I have been for twenty years afflicted with rheumatic pains, a good part of the time confined to my bed, unable to help myself. Last summer I was suffering with one of the worst attacks that I had ever had. I was taken from my bed to the springs and put into one of the baths, my relief was almost instantaneous. I continued to take the baths and drink the waters, and I am now entirely free from all pains. For the cure of rheumatism there is not its equal in the world. My cure I know to have been caused by using the waters of the Sandwich Mineral Springs.

NOAH CAVANAH,

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SANDWICH, May 6th, 1869.

DEAR SIR—This is to certify that I have for many years been troubled with vertigo. I was advised last summer to try the waters of the Sandwich Mineral Springs; I did so, bathing my head with the water and also drinking the water. I am now entirely recovered. My relief I believe was caused by using the waters of the above named springs.

WILLIAM BAIN,

Justice of the Peace, Essex Co., C. W.

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SANDWICH, Essex Co., C. W.

DEAR SIR—This is to certify that I have for many years been afflicted with rheumatism, and for the past fifteen years my right arm was stiffened at the elbow joint so that I could make no use of my hand. Last summer I commenced to use the waters of the Sandwich Mineral Springs. I had used the water but a short time when I began to have some use of my hand. I am now entirely free from all rheumatic pains, have recovered the use of my arm. My cure was wrought by using the waters of the Sandwich Mineral Springs.

ANTOINE VERMETTE,

May 6th, 1869.

Turnkey, Essex Co. Jail.

DETROIT, May 1st, 1869.

DEAR SIR—This is to certify that I have used the Sandwich Mineral Springs waters. Last summer when I commenced to use the water, I was suffering with a violent attack of rheumatism in my back, and a severe soreness in my bowels, I was so much prostrated at that time that I could not pull on my boots, or get out of my chair. After using the water only twenty-four hours I was relieved of the soreness in my bowels, and continuing to use the water a few days longer I was entirely cured of the rheumatism in my back. I have suffered for many years with severe costiveness, I have tried most all kinds of treatment and could get no relief until I commenced to use the waters of the above named springs, and I believe my relief and cure was caused by using the Sandwich Mineral Springs waters.

A. IVES,

Banker, Detroit.

DETROIT, May 1st, 1869.

DEAR SIR—This is to certify that I have been suffering for many years with the inflammatory rheumatism. I have been treated by many of our best physicians, but without any permanent benefit. A year ago I was advised to try the waters of the Sandwich Mineral Springs. When I began to use the waters I was very much prostrated, was very thin in flesh. At the present time my general health is good, I do not have any rheumatic pain, have gained in flesh and recovered my ordinary strength. My cure was caused by using the waters of the Sandwich Mineral Springs.

MRS. LYDIA C. AUSTIN,

No. 55 Congress st. west, Detroit.