3 the Editor of the Whitehaven Gazelle.

Srr,—from what appeared in your paper, some nonths since, I was led to expect that the time was not far distant when Whitehaven would participate in the advantages which other towns have derived from being lighted with Gas; but, from some cause or other with which I am unacquainted, I fear there is little prospect of seeing so desirable an object carried into effect. I beg, therefore, to call the attention of the public to a subject of equal, if not superior, importance, I mean that of supplying the Town with Good WATER, in a more convenient way than any that has hitherto been adopted. Should it be found impracticable to raise sufficient funds to light the Town with Gas, I doubt not but the gentlemen who laudably endeavoured to do so, will use the same exertions to supply it with Water; and as the latter plan might be accomplished at much less expense, and is free from the objections which have been urged against the former, I hope it will meet with sure of

In the year 1808, the Earl of Lonsdale, wishing to have the Town of Whitehaven properly supplied with Water, gave the necessary directions for measuring all the Springs in the neighbourhood, in order that so desirable an object might be carried into effect.

The undermentioned Springs, in the driest periods of the year, were found to yield the following quanti-

of the year, wer

Gals, per Min.

Of these Springs that at Stanley is the largest: it yields 66,240 Gallons in the 24 hours; and supposing the Town to contain 16,000 inhabitants, it will yield equal to 4 Gallons per day for each individual. This quantity would be nearly sufficient: in Edinburgh the estimated quantity for each inhabitant is 54 Gallons in the 24 hours.

the 24 hours.

The level of the Stanley Spring strikes the surface La of the ground near Partes Pit, and is 25 feet helow the La ground in crossing the road between Green Bank and Mire House, and the level is again above ground at the foot bridge over the Poe, on the North side of Mire House, and continues so all the way to the Town, near the Poe, where it is 16 feet above the ground. The distance of the Spring from Partes Pit to the foot bridge, three quarters of a mile; and from the bridge to the town is two miles: total distance three miles.

It is supposed that the Spring rises further up the hill side, and is conducted down to where it shows it self. If, therefore, it could be obtained 25 feet higher, it may be brought in a conduit above the level of the hill, between Partes Pit and the bridge over the Poe, to the Town, near the Poe, where Reservoirs may be made to collect the water day and night. From these Reservoirs it may be raised by a 15 horse engine, into the Town (about 16 fathoms.) Out of this pond the water may be carried in iron pipes to the Town. But if the Spring does not rise higher up in the hill than where it is at present seen, the steam engine may be placed at the Spring, and force the water to the proper height at once, whence it can run in a conduit on the high ground, to the last mentioned Reservoir.

If the Stanley Spring should prove inadequate to the supply of the whole Town, then Adamgill-head Spring smay be brought in a conduit to supply that part of the feed from Stanley need not be raised so high. If however, no other feed than that from Stanley should be deemed necessary, the pipes need be laid only as far up the hill as George-street, where the inhabitants of Rosemary Lane and Mount Pleasant might also procures.

at the public conveniences, mary Lane and Mount Pl Water in Albion-street, the

Water; the first (which is an expensive plan) is to have pipes in every street, and from these branch pipes into every house. The second plan (which is much more as economical) is to have pipes laid only in certain streets, in and branch pipes carried thence to proper places—and at such distances as that none of the inhabitants shall er have more than 100 yards to travel for water. This latter plan would cost one half less for pipes than the ct. former

An Estimate of the probable Expense of Supplying the Town of Whitchaven with Water.

he distance from the vicinity, or head of Scotch-

ufstreet, (which is above the level of every other part of
the Town, situated upon the side of a declivity, being
so, not less than 70 or 80 feet perpendicular above the
nd plain or principal part of the said Town) to the 3 Springs
ess or Water Pumps, named Level, Aikbank, and Bristow
the Bank Pumps, computed to be about 1620 yards, and
supposing this distance to be laid with Cast Iron Pipes,
of about 3½ inches diameter within, would cost

£1474 10

It is presumed such Springs would afford in a sufficient supply.

Supposing Pipes to be laid through the different streets and lanes in the Town of Whitehaven it would be equal to a distance

of about 7,500 yards.

And allowing 12s, per running 4500 0
Yard would cost.

Cutting Ground and laying Pipes 927 10
at 2s. 6d. per Yard

Fountains and Cocks in the Town 300 0

he Should the supply of Water from those in Springs prove inadequate, by continuing the line of Pipes to the further named Springs of ce Lamb Head and Adam Gill, a distance of he about 1100 yards, it would cost for nd 1100 Yards of Pipes at 12s. per \$\) 660 0 0 Laying 1100 Yards of Pipes at \$ 157 10 0 2s. 6d. per Yard...... 1100 Yar 660 0 7212 0

0

Probable Expense of the whole..... 01 6008 F 0

£797 10 0

797 10

I remain, Sir, yours, &c. May 17, 1822.

Whitehaven,

