Assessment tool on flood pump flow capacity: Bridge Street flooding

Date and type of flood	Initial response and effectiveness	Second response and effectiveness	Evaluation of incident
26/12/15 River deluge	Fire Brigade **portable pump, 10,500 gallons per hour** Effective initially, ineffective after 1 hour.	Environment Agency 8" pump. Controlled river deluge escaping through surface water drains on Bridge Street. In effective on river breach.	Environment Agency pump most effective: incident was river deluge escaping through surface water drains on Bridge Street. In effective due to river breach.
23/08/15 Surface water flooding	N/A no pump deployed.	N/A no pump deployed.	N/A no pump deployed.
22/08/15 Surface water and sewer flooding	Fire Brigade full tender pump 26,500 gallon per hour: effective.	N/A Fire Brigade full tender pump (same pump): effective.	Fire Brigade full tender pump effective, alleviated surface water flooding.
08/08/14 Surface water flooding	Fire Brigade full tender pump: effective. Initial pumping was performed from a SW drain near the river: unsuccessful.	N/A Fire Brigade full tender pump (same pump): effective.	Fire Brigade full tender pump effective, alleviated surface water flooding.

23/08/13 Surface water flooding	N/A no pump deployed.	N/A no pump deployed.	N/A no pump deployed.
31/12/12 Surface water flooding	Fire Brigade full tender pump: effective.	N/A Fire Brigade full tender pump (same pump): effective	Fire Brigade full tender pump effective, alleviated surface water flooding.
26/09/12 Surface water and river deluge back up.	Fire Brigade **portable pump, 10,500 gallons per hour** effective initially, ineffective after a few hours.	Environment Agency 8" pump deployed due to potential river breach: effective.	Environment Agency pump most effective alleviated river deluge flooding, escaping through surface water drains.

Approximate Flow rate of the Fire Brigades full tend pumps: 26,500 gallons per hour/ 10 PSI.

All successful pumping was performed outside the Sonali restaurant.

Approximate Flow rate of the Environment Agency's pumps: 0.17m3/s equates to a maximum of 134621 gallons/hour.

All pumping was performed outside Simply Party.

Road closures were provided in all incidents.

Conclusion:

Based on the previous flooding events over the last four years it has been determined that a pump of at least **26,500 flow rate per hour** is required to manage foreseeable circumstances of surface water flooding.

An assessment tool has not been determined for Commercial Street and Crab Garth due to limited deployment of pumps.


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