DRAFT COST PROCESS REGULATIONS ENVIRONMENT/HEALTH

What municipal wastewater problems need solving?

	from most to least, the pink dots show how often stakeholders raised each issue at the 10/17/17 LWC wastewater roundtable
1	funding for aging infrastructure: sources of, program types, amounts of, consistency of, long-term, plan
6	availability of trading processes/partners (PS and/or NPS)
	facility cost vs environmental/health benefit (use of metrics: cost/# of pollutant removed or cost/WLA share)
	cost of compliance to meet new/stricter effluent limits (e.g.: P, Hg, Cl, SO4, Cr, CECs, pharmaceuticals, NO3, NH4, TALU)
	debt capacity (grants over loans, no/minimal retained earnings, inadequate tax base: low/fixed income & small size)
7	skilled workforce (recruitment incentives, competetive salary, ongoing training, pooled staff)
5	operation and maintenance: cost increases with technical complexity, I/I, flusahble wipes
4	compliance tools: tech assistance, variances, compliance schedules, fee waivers, optimization (with equity for businesses)
	asset management (need staff and expertise for long-range capital planning)
	effluent reuse (offset aquifer use or recharge aquifer)
	economic development (retain industry, population growth, border competition)
	rate disparities (due to population, industry contributions, level of [pre]treatment; cost/capita by treatment type)
	(education re:) pollution prevention/source reduction (conservation, reuse)
	regulatory certainty (with equity for businesses)
8	affordability/availability of technologies (existing, emerging, innovated, combined, hybrid, diverse)
	engineering services (system evaluation, design, alternate technologies review, compliance advice, optimization)
	public-private partnerships can reduce costs
	design capacity needs can be unpredictable & affect treatment options (growth, decline, reuse, I/I)
3	integrated water management planning (avoid shifting the burden from wastewater to waters supply)
	variability of effluent limits (due to receiving water quality, water use classifications)
2	permitting (appropriateness of stds, C:B assessments, peer review, cumulative effects, individual vs watershed approach)
	grant and loan eligibility criteria and formula (MHI for communities with older & poorer populations)
	permit alignment with regulations (vs use of guidance)
	consistent, multiyear process
	best value procurement: consider life cycle costs and avoid low bid
	downstream benefits of treatment (vs avoided costs to downstream users)
	resource recovery: nutrients, energy, water
	unknown effects of CECs
	treatment chemicals effect on receiving water quality
	proportional pollutant reduction cost for point source vs nonpoint source shares
	timing of improvements (e.g., condition, co-construction, funding availability, regulatory changes)
	property value loss & expense of centralized treatment in towns with failing septic-systems
	waste hauling/disposal (biosolids, brine, other filtration residues)