CA STATE Phase II Permit Sections	Element	2NForm tool	Description of linkage
E.7(i)a-j E.8(i)a-e	Education and Outreach	TELR Parcel RAM	Mapped based transparency and graphical results improve communication to staff, public, and regional board about stormwater quality issues. **TELR**; Mapped prioritization of catchments where best opportunities for water quality improvements exist in community. **Parcel RAM** demonstrates land owner's pollutant load contribution to catcheach. Allows staff to validate land owner's efforts to reduce pollutant loading. Simplify conversation to reducing runoff from land they own.
E.9.a	Outfall mapping (Required)	Mapping Guidance TELR	Systematic documentation and communication of where stormwater flows to associated receiving waters. Focused organization of entire MS4 into meaningful planning units. Mapping includes fundamental inputs to TELR model and directly informs potential urban catchment water quality monitoring sites in future.
E.9.b	Illicit discharge	Parcel RAM Trash RAM	Spatial framework provides opportunity to identify 'hot spot' locations where higher potential for illicit discharges and illegal dumping. Functionality coming soon.
E.11.e.(ii)b-c	Municipal Ops Annual/Quarterly Inspections	BMP RAM Trash RAM	**BMP RAM** spatially maps structural BMPs and provides users with standardized protocols to rapidly assess and track BMP condition, prioritize maintenance urgency, communicate to field staff. Inventory of trash capture devices and condition assessed and tracked over time. **Trash RAM** spatially maps and documents trash control device/activity effectiveness to communicate expected receiving water benefits.
E.11.g(ii)a, d E.11.h	Storm Drain System Maintenance	BMP RAM Trash RAM	**BMP RAM** assists in prioritizing structural treatment control BMPs that require maintenance and informs iterative asset management over time. **Trash RAM** documents trash control device/activity effectiveness, and prioritizes where continued trash control actions are most needed.
E.11.f	Catch Basin Assessment and Prioritization	BMP RAM TELR	**BMP RAM** allows users to inventory and assess catch basin condition annually. BMP RAM scoring prioritizes where maintenance intervention is most needed. **TELR** uses BMP RAM inputs (effectiveness scoring) to quantify benefits of maintenance and iteratively prioritize which catchments require attention.
E.12.i	Post-Construction BMP Condition Assessment	BMP RAM Parcel RAM	**BMP RAM** allows users to inventory, map and determine relative maintenance condition of structural BMPs installed through PCRs. **Parcel RAM** provides data management system to manage, track and account for PCR actions by specific land owners.
E.13.b	TMDL Monitoring	ALL TELR	All products focus on stormwater management within the MS4 and report progress as the quantified reduction in loading to specific receiving waters (via **TELR**). The MS4 focuses program efforts on improving stormwater quality discharging from MS4 to receiving waters. Mapping, monitoring and modelling provide a science based context to improve communications between Water Board and MS4 regarding the relative MS4s contribution to a subject receiving waters with a TMDL listing.
E.14.a-b	Program Effectiveness Assessment and Tracking	ALL TELR	**RAMs** allows users to assess effectiveness of explicit BMPs over time. **TELR** uses RAM data to quantify load reductions as a result of structural and non-structural BMP implementation within the MS4. Complete data management system allows users to assess, quantify, track and report program effectiveness over time across catchments, receiving waters, municipality, watersheds region, etc.
E.15.d	BMP Reporting	ALL TELR	Water Board has read only access of saved annual results saved in all products to reduce reporting burdens. Any and all data can be easily exported in spatial and tabular formats to meet other reporting purposes.