2021-2022

Phase II Small MS4 Annual - Report

REPORTING PERIOD:07/01/2021 - 06/30/2022

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Permittee Information

City of Buellton

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Phase II Small MS4 Annual - Report - 2021-2022

Questions & Answers

Q No.	Text	DropDown Answer	CheckBoxAnswer	DescriptiveAnswer	Date Answer	Number Answer
null	GENERAL					
1	Per Section E.1., did you continue to implement your previously approved storm water management plan? If 'No', please provide a brief explanation in the comments section. (Years 1-9) (Please note: This question is for renewal permittees only. If you are a new permittee, please select 'NA')	Yes				
2	If you relied on another entity (co-permittee or SIE) to implement one or more of the permit requirements did the co-permittee or SIE meet the permit requirements that were implemented on your behalf? (Years 1-9) If 'Yes', please attach a copy of the agreement that you have with the other entity if it is new this year or if the agreement has changed or been updated since the last time it was uploaded. If 'No', please provide a brief explanation.	Yes				
null	PROGRAM MANAGEMENT					
3	Reviewed and/or revised any relevant ordinances or other regulatory mechanisms, or adopted any new ordinances or regulatory mechanisms to obtain adequate legal authority as specified by Section E.6.a.(ii)(a-j)? (Year 2) If 'No', please provide a brief explanation in the comments section.	N/A				
4	Certified legal authority, as specified by section E.6.b.? (Year 2) If 'Yes", attach required statement signed by an authorized signatory certifying adequate legal authority to comply with all Order requirements. (E.6.b.(ii)(a-e)). (Year 2) If "No", please provide a brief explanation.	N/A				
5	Developed and began implementation of Enforcement Response Plan as specified by Section E.6.c.(ii)(a-f)? (Year 3); OR Implemented the Enforcement Response Plan as specified in Section E.6.c.(ii)(a-f)? (Years 4-9) If 'No', please provide a brief explanation.	Yes				
null	EDUCATION AND OUTREACH					
6	Selected one or more of the Public Education and Outreach options? (E.7.a) (Year 1) If yes, which option was selected to comply with section E.7.? Provide answer in comments section. (Year 1) For countywide/regional collaborative option selection, upload required attachment: agreement confirming collaboration with other MS4s. (Year 1)	N/A				

7	Developed and began implementation of storm water public education and outreach program as specified by section E.7.a.(ii)(a - m)? (Year 2); OR Continued implementation of storm water public education and outreach program as specified by section E.7.a.(ii)(a - m)? (Years 3-9) If 'No', please provide a brief explanation.	Yes				
8	Developed and began implementation of a public education strategy that established education tasks based on water quality problems, target audiences and anticipated task effectiveness? (E.7.a.(ii)a) (Year 2); OR Continued implementation of a public education strategy that established education tasks based on water quality problems, target audiences and anticipated task effectiveness? (Years 3-5) If 'No', please provide a brief explanation. THIS QUESTION IS REDUNDANT WITH THE QUESTIONS DIRECTLY ABOVE AND HAS BEEN REMOVED. YOU HAVE NO NEED TO ANSWER THIS QUESTION	N/A				
9	Developed and implemented a training program for all staff who, as part of their normal job responsibilities, may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection to the storm drain system, as specified by section E.7.b.1.(ii)(a-g)) (Year 3); OR Continued to implement the training program for all appropriate staff? (Years 4-9) If 'NA', please provide a brief explanation.	Yes				
10	Provided construction outreach and education training for staff implementing construction site storm water runoff control program, as specified by section E.7.b.2.a(ii)(a-c)? (Years 2-9) If 'NA', please provide a brief explanation.	Yes				
11	Developed and distributed educational materials to construction site operators, as specified by section E.7.b.2(b)(ii)(a-d), (Year 3); OR Continued to distribute educational materials? (Years 4-9) If 'NA', please provide a brief explanation.	Yes				
12	Updated existing storm water website, as necessary, to include information on appropriate selection, installation, implementation and maintenance of BMPs? (E.7.b.2.(b)(ii)(d)) (Years 3-9) If 'No', please provide a brief explanation.	Yes				
13	Trained employees on how to incorporate pollution prevention/good housekeeping techniques into Permittee operations, as specified by section E.7.b.3.(ii)(a-d)? (Years 2-9) If 'NA', please provide a brief explanation.	No		Yes - Buellton. No - Solvang. The Maintenance staff was scheduled to take the pollution prevention and good housekeeping training on June 29, 2022 but the refresher training had to be rescheduled; and it was completed on July 6, 2022.		
null	PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM					

14	Involved the public in the development and implementation of activities related to the program, as specified by section E.8.(ii)(a-e)? (Years 2-9) If 'No', please provide a brief explanation.	Yes				
null	ILLICIT DISCHARGE DETECTION AND ELIMINATION					
15	Created and/or maintained outfall map? (E.9.a) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
16	Included in the outfall map, location of all outfalls that are operated by the Permittee within the urbanized area, drainage areas, and land use(s) contributing to those outfalls that are operated by the Permittee, and that discharge within the Permittee's jurisdiction to a receiving water? (E.9.a(ii)(a)) (Year 2) If 'No', please provide a brief explanation.	N/A				
17	Included in the outfall map, the location (and name, where known to the Permittee) of all water bodies receiving direct discharges from those outfall pipes? (E.9.a(ii)(b)) (Year 2) If 'No', please provide a brief explanation.	N/A				
18	Included in the outfall map, priority areas, as specified in E.9.a.(ii)(c)(1-8)? (Year 2) If 'No', please provide a brief explanation.	N/A				
19	Included in the outfall map, field sampling stations? (E.9.a(ii)(d)) (Year 2) If 'No', please provide a brief explanation.	N/A				
20	Included in the outfall map, the permit boundary? (E.9.a(ii)(e)) (Year 2) If 'No', please provide a brief explanation.	N/A				
21	Maintained inventory of all industrial/commercial facilities/sources within the Permittee's jurisdiction (regardless of ownership) that could discharge storm water pollutants to the MS4? (E.9.b) (Year 2) If 'No', please provide a brief explanation.	N/A				
22	Included in the inventory, the facility name, address, nature of business/activity, physical location of storm drain receiving discharge, name of receiving water and if the facility/source is tributary to a Clean Water Act Section 303(d) listed water body segment or water body segment subject to a TMDL? (E.9.b(ii)(a)) (Year 2) If 'No', please provide a brief explanation.	N/A				

23	Included in the inventory: vehicle salvage yards, metal and other recycled materials collection facilities, waste transfer facilities, vehicle mechanical repair, maintenance or cleaning; building trade central facilities or yards; corporation yards; landscape nurseries and greenhouses; building material retailers and storage; plastic manufacturers; other facilities designated by the Permittee or Regional Water Board to have reasonable potential to contribute to pollution of storm water runoff? (E.9.b(ii)(b)) (Year 2) If 'No', please provide a brief explanation.	N/A				
24	Determined if facilities that are required to be covered under the Statewide Industrial General Permit (IGP) have done so and notified Regional Water Board of any non-filers? (E.9.b(ii)(c)) (Year 2) Attached copies of the notification of non-filers to the Regional Water Board (E.9.b(ii)(c)) (Year 2) If 'No', please provide a brief explanation.	N/A				
25	Updated the inventory annually? (E.9.b(ii)(d)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
26	Developed and implemented procedures to proactively identify illicit discharges originating from priority areas identified in Section E.9.a.(ii)(c), at least once over the length of the permit term. OR, established a self-certification program where Permittees require reports from authorized parties demonstrating the prevention and elimination of illicit discharges at their facilities in priority areas at least once over the length of the permit term? (E.9.b(ii)(e)) (Year 2) OR Implemented the procedures established per E.9.b.(ii).(e).? (Years 3-9) If 'No', please provide a brief explanation.	Yes				
27	Conducted field sampling of any outfalls that were flowing or ponding when it had been more than 72 hours after the last rain event (i.e., were suspected of illicit discharges) during outfall inventory mapping (under section E.9.a.)? (E.9.c.) (Year 2) If 'No', please provide a brief explanation.	N/A				
28	Conducted monitoring for the parameters listed in Table 1, or for parameters selected by Permittee based on local knowledge of pollutants of concern in priority areas? (E.9.c(ii)(a)) (Years 2-9) If tailored parameter action levels, attach justification and modifications to parameters If 'No', please provide a brief explanation.	Yes		The Cities of Solvang and Buellton do not add Fluoride to their water system; therefore, the outfall samples collected are not sampled for this indicator parameter. The Tailored Parameter Justification/Modifications Buellton and Solvang Transmittal (Email Dated 10/6/17) - IDDE Sampling Chlorine was uploaded as an attachment to the Phase II Small MS4 Annual Report - Traditional 2016 - 2017 Annual submittal as requested by the CCRWQCB. Per CCRWQCB, no additional upload is necessary.		

29	Verified that indicator parameter action levels in Table 2, or tailored parameter action levels were not exceeded? (E.9.c.(ii)(b)) (Years 2-9) If tailored parameter action levels, attach justification and modifications to parameter action levels. If 'No', please provide a brief explanation.	Yes		The Cities of Solvang and Buellton do not add Fluoride to their water system; therefore, the outfall samples collected are not sampled for this indicator parameter. The Tailored Parameter Justification/Modifications Buellton and Solvang Transmittal (Email Dated 10/6/17) - IDDE Sampling Chlorine was uploaded as an attachment to the Phase II Small MS4 Annual Report - Traditional 2016 - 2017 Annual submittal as requested by the CCRWQCB. Per CCRWQCB, no additional upload is necessary.		
30	Conducted follow-up investigations per Section E.9.d. if the action level concentrations were exceeded? (E.9.c(ii)(c)) (Years 2-9) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. NA - Solvang. The City of Solvang did not have any action level concentrations exceedances which required follow-up investigations.		
31	Developed written procedures for conducting investigations into the source of all suspected illicit discharges? (E.9.d.ii(a-e)) (Year 2) If 'No', please provide a brief explanation.	N/A				
32	Investigated within 24 hours, non-storm water discharges suspected of being sanitary sewage and/or significantly contaminated? (E.9.d.(ii)(a)) (Years 2-9) If 'No', please provide a brief explanation.	NA		The Cities of Solvang and Buellton did not have any non-stormwater discharges suspected of being sanitary sewage and/or significantly contaminated.		
33	Prioritized investigations of suspected sanitary sewage and/or significantly contaminated discharges over investigations of non-storm water discharges suspected of being cooling water, wash water, or natural flows? (E.9.d.(ii)(b)) (Years 2-9) If 'No', please provide a brief explanation.	NA		The Cities of Solvang and Buellton did not have any non-stormwater discharges suspected of being sanitary sewage and/or significantly contaminated that required investigations.		
34	Reported immediately the occurrence of any flows believed to be an immediate threat to human health or the environment to local Health Department? (E.9.d.(ii)(c)) (Years 2-9) If 'No', please provide a brief explanation.	NA		The Cities of Solvang and Buellton did not have any flows believed to be an immediate threat to human health or the environment requiring notification to local Health Department.		
35	Determined and documented through investigations the source of all non-storm water discharges? (E.9.d.(ii)(d)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
36	Implemented corrective actions to eliminate illicit discharges as specified in section E.9.d.(ii)(e)? (Years 2-9) If 'No', please provide a brief explanation.	Yes				
37	Developed and began implementing a spill response plan? (E.9.e) (Year 1); OR Continued to implement a spill response plan (Years 2-9) If 'No', please provide a brief explanation.	Yes				
null	CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM					

38	Developed an enforceable construction site storm water runoff control ordinance for all projects that disturb less than one acre of soil? (E.10) (Year 2) If 'No', please provide a brief explanation.	N/A				
39	Created, maintained, and continuously updated an inventory of all projects subject to local construction site storm water runoff control ordinance according to the minimum requirements listed in section E.10.a(ii)(a-h) ? (E.10.a) (Years 1-9) If 'No', please provide a brief explanation.	Yes				
40	Developed procedures that include the minimum requirements listed in section E.10.b(ii)(a-e) to review and approve construction plan documents? (i.e., erosion and sediment control plans). (E.10.b) (Year 1) If 'No', please provide a brief explanation.	N/A				
41	Used legal authority to implement procedures for inspecting public and private construction projects and conducted enforcement as necessary? (E.10.c). (Years 2-9) If 'No', please provide a brief explanation.	Yes				
42	Conducted inspections, at a minimum, at priority construction sites prior to land disturbance, during active construction and following active construction? (E.10.c.(ii)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
43	Included in inspection, an assessment of compliance with the Permittee's construction site storm water control ordinance and other applicable ordinances? (E.10.c.(ii)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
44	Active site inspections included inspections of BMP maintenance, BMP effectiveness and verification of no pollutant of concern discharge? (E.10.c.(ii)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
45	Based inspection prioritization criteria on project threat to water quality (includes soil erosion potential, site slope, project size and type, sensitivity of receiving water bodies, proximity to receiving water bodies, non-storm water discharges, projects more than one acre that are not subject to the CGP and past record of non-compliance)? (E.10.c.(ii)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
null	POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR PERMITTEE OPERATIONS PROGRAM					
46	Developed and maintained an inventory of Permittee-owned or operated facilities within your jurisdiction that are a threat to water quality, as specified in E.11.a(ii). (Years 2-9) If 'No', please provide a brief explanation.	Yes				

47	Developed and submitted a map that identifies the location of inventoried Permittee-owned/operated facilities, storm drainage system corresponding to the each of the facilities and the receiving water, facility name and management including contact information? (E.11.b) (Year 2) If 'No', please provide a brief explanation.	N/A				
48	Conducted annual inspections of and assessed the pollutant discharge potential for all Permittee-owned facilities to identify Hotspots, as specified in section E.11.c? (Year 3); If 'No', please provide a brief explanation	N/A				
49	Developed and implemented SWPPPs for hotspots as specified in section E.11.d.(ii)(a-c))? (Year 4) Continued to implement SWPPPs for hotspots? (Years 5-9) If 'No', please provide a brief explanation.	NA		NA - Buellton. NA - Solvang. The City of Solvang had previously conducted a Hotspot Site Investigation on each City owned or operated facility and did not find a "Severe" or "Confirmed" Hotspots during the facility assessments that would require the development and implementation of a SWPPP.		
50	Conducted quarterly visual inspection of hotspots and hotspot discharge locations? (E.11.e.(ii)(a and c)) (Years 5-9) If 'No', please provide a brief explanation.	NA		NA - Buellton. NA - Solvang. The City of Solvang had previously conducted a Hotspot Site Investigation on each City owned or operated facility did not find a "Severe" or "Confirmed" Hotspots identified during the facility assessments that would require quarterly visual inspections of hotspots and hotspot discharge locations.		
51	Conducted annual comprehensive hotspot inspection? (E.11.e(ii)(b)) (Years 5-9) If 'No', please provide a brief explanation.	Yes				
52	Inspected each inventoried facility that is not a hotspot once during permit term? (E.11.e(ii)(d)) (Years 5-9) If 'No', please provide a brief explanation.	Yes				
53	Implemented procedures to assess and prioritize maintenance of storm drain system infrastructure and assigned a high priority to each catch basin meeting any of the criteria listed in section E.11.f(ii)(1-8)? (Year 2) If 'No', please provide a brief explanation.	N/A				
54	Began maintenance of storm drain systems according to the procedures and priorities developed according to section E.11.g.(ii)(a-e)? (Year 3) If 'No', please provide a brief explanation. THIS QUESTION IS REDUNDANT WITH THE QUESTIONS DIRECTLY BELOW AND HAS BEEN REMOVED. YOU HAVE NO NEED TO ANSWER THIS QUESTION	N/A				

55	Developed and implemented a strategy to inspect storm drain systems, based on the priorities assigned in section E.11.f.(ii). (E.11.g.(ii)(a)). (Year 3); OR Continued to implement the strategy to inspect storm drain systems? (Years 4-9) If 'No', please provide a brief explanation.	Yes				
56	Developed and implemented a schedule to clean high priority catch basins and other systems? (E.11.g.(ii)(b)) (Year 3); OR Continued to implement a schedule to clean high priority catch basins? (Years 4-9) If 'No', please provide a brief explanation.	Yes				
57	Ensured that each catch basin in high foot traffic areas includes a legible storm water awareness message? (E.11.g.(ii)(c)) (Years 3-9) If 'No', please provide a brief explanation.	Yes				
58	Reviewed and maintained high priority facilities and removed trash and debris from high priority areas prior to the rainy season? (E.11.g.(ii)(d)). (Years 3-9) If 'No', please provide a brief explanation.	No		Yes - Buellton. No - Solvang. The City of Solvang was not able to remove trash and debris from all of the high priority facilities that were identified due to staffing constraints as result of reduced manpower, internal reorganization, staffing level reductions and limited availability of properly trained staff that was confined staff training or could operate the vactor truck. The City was able to clean high priority areas that did not require vactor truck or confined space entry restrictions.		
59	Developed and maintained a procedure to dewater and dispose of materials extracted from catch basins that ensures that water removed during the catch basin cleaning process and waste material will not reenter the MS4? (E.11.g.(ii)(e)). (Year 3) Continued to implement a procedure to dewater and dispose of materials extracted from catch basins? (Years 4-9) If 'No', please provide a brief explanation.	No		Yes - Buellton. No - Solvang. The City of Solvang not have any materials extracted from the catch basin that required dewatering.		
60	Developed program to assess O&M activities for potential to discharge pollutants and inspected all O&M BMPs quarterly as specified in section E.11.h.(ii)(a-d)? (Year 3) If 'No', please provide a brief explanation. THIS QUESTION IS REDUNDANT WITH THE QUESTIONS DIRECTLY BELOW AND HAS BEEN REMOVED. YOU HAVE NO NEED TO ANSWER THIS QUESTION	N/A				
61	Developed and implemented a program that includes activities listed in section E.11.h.ii(a)(1-8) to assess operations and maintenance activities and subsequently developed applicable BMPs? (E.11.h(ii)(a)) (Year 3); OR Continued to implement a program to assess O&M activities? (Years 4-9) If 'No', please provide a brief explanation.	Yes				

62	Identified all materials that could be discharged from each of these O&M activities, and which materials contain pollutants? (E.11.h(ii)(b)) (Years 3-9) If 'No', please provide a brief explanation.	Yes				
63	Developed and identified a set of BMPs that, when applied during Permittee O&M activities, will reduce pollutants in storm water and non-storm water discharges? (E.11.h(ii)(c)) (Year 3); OR Continued to implement identified BMPs for O&M activities? (Years 4-9) If 'No', please provide a brief explanation.	Yes				
64	Evaluated all BMPs implemented during O&M activities quarterly? (E.11.h(ii)(d)) (Years 3-9) If 'No', please provide a brief explanation.	No		Yes - Buellton. No - Solvang. The O&M activities assessment program was implemented during Year 9. O&M activities assessment inspection forms were not received for each quarter from each Division which may have resulted from in-activity during the quarter.		
65	Developed and implemented a process for incorporating water quality and habitat enhancement into new and rehabilitated flood management projects? (E.11.i) (Year 3); OR Continued to implement the process for incorporating water quality enhancement into flood management projects? (Years 4-9) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. NA - Solvang.		
66	Implemented a landscape design and maintenance program to reduce the amount of water, pesticides, herbicides and fertilizers used by Permittee? (E.11.j) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
67	Evaluated pesticides, herbicides and fertilizers used and application activities performed and identified pollution prevention and source control opportunities? (E.11.j(ii)(a)) (Year 2) If 'No', please provide a brief explanation.	N/A				
68	Implemented practices that reduced the discharge of pesticides, herbicides and fertilizers as specified in section E.11.j(ii)(b)(1-4))? (Years 2-9) If 'No', please provide a brief explanation.	Yes				
69	Implemented educational activities for municipal applicators and distributors? (E.11.j(ii)(b)(1)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
70	Implemented landscape management measures that rely on non-chemical solutions, including the measures specified in section E.11.j.(ii)(b)(2)(a-i)? (Years 2-9) If 'No', please provide a brief explanation.	Yes				
71	Collected and properly disposed of unused pesticides, herbicides and fertilizers? (E.11.j(ii)(b)(3))(Years 2-9) If 'No', please provide a brief explanation.	Yes				

72	Minimized irrigation runoff by using an evapotranspiration-based irrigation schedule and rain sensors? (E.11.j(ii)(b)(4)), (Years 2-9) If 'No', please provide a brief explanation.	Yes				
73	Recorded the types and amounts of pesticides, herbicides and fertilizers used in the permit area? (E.11.j(ii)(c)) (Years 2-9) If 'No', please provide a brief explanation.	Yes				
null	POST CONSTRUCTION STORMWATER MANAGEMENT PROGRAM					
74	Regulated development to comply with sections E.12.b. through E.12.I of permit? (E.12.a) (Years 2-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
75	Required implementation of site design measures for all projects that create and/or replace 2,500- 5,000 square feet of impervious surface (including single family homes, that are not part of a larger plan of development)? (E.12.b) (Years 2-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
76	Implemented standards, including measures for site design, source control, runoff reduction, storm water treatment and baseline hydromodification management, on projects that create and/or replace more than 5,000 square feet of impervious surface (Regulated Projects)? (E.12.c) (Years 2-9) If 'No', please provide a brief explanation.	N/A		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
77	Required Regulated Projects to implement source control measures? (E.12.d) (Years 2-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
78	Required Regulated Projects to implement LID standards designed to reduce runoff, treat storm water, and provide baseline hydromodification management to the extent feasible, to meet the Numeric Sizing Criteria for Storm Water Retention and Treatment under section E.12.e(ii)c? (Years 2-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
79	Developed and implemented hydromodification management procedures for Regulated Projects that created and/or replaced one acre or more of impervious surface as specified by section E.12.f? (Year 3); OR Continued to implement hydromodification management procedures for Regulated Projects? (Years 4-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		

80	Developed and/or modified enforceable mechanisms to implement E.12.b through E.12.f., if necessary? (E.12.g) (Years 3-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
81	Implemented an O&M verification program for storm water treatment and baseline hydromodification structural controls measures on all Regulated Projects, as specified by section E.12.h.(ii)(a-e)? (Years 2-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
82	Inventoried and assessed the maintenance condition of structural post-construction BMPs within your jurisdiction? (E.12.i) (Years 3-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
83	Developed and maintained a plan to inventory, map and determine the relative maintenance condition of structural post-construction BMPs as specified by section E.12.i(ii)(a-d)? (Year 3); OR Continued to implement plan to inventory, map and assessment of maintenance condition of post-construction BMPs? (Years 4-9) If 'No', please provide a brief explanation.	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
84	Conducted an analysis of the landscape code to correct gaps and impediments impacting effective implementation of post-construction standards? (E.12.j(ii)(a)) (Year 1) If 'No', please provide a brief explanation.	N/A				
85	Completed any changes to the landscape code to effectively administer post-construction requirements? (E.12.j(ii)(b)) (Years 2-9) If 'No', please provide a brief explanation.	No		The Cities of Solvang and Buellton did not find any impediments with administering the post construction requirements during the Municipal Landscape Gap Analysis but the City is considering future opportunities to improve that were identified during the analysis and/or adopt a new ordinance to align with the Department of Water Resource's Model Water Efficient Landscape Ordinance (MWELO).		
86	Implemented post-construction storm water management requirements based on a watershed-process approach as specified by section E.12.k? (Years 1-9)	NA		These requirements are superseded by the Central Coast adopted Post-Construction Requirements (PCRs). The Cities shall comply with the adopted and approved Stormwater Management Requirements for Development Projects in the Central Coast Region dated July 12, 2013.		
87	Proposed alternative post-construction requirements that achieved multiple-benefits as specified by section E.12.l? (Years 1-9)	No		The Cities of Solvang and Buellton did not submit a proposal to the Regional Water Board or the Executive Officer to obtain approval for alternative post-construction measures for multiple-benefit projects.		
null	WATER QUALITY MONITORING					
88	Indicate which water quality monitoring approach applies to your jurisdiction. Check all that apply.		303(d) Monitoring			

89	If you selected TMDL Monitoring or 303(d) Monitoring, did you consult with your Regional Water Board within Year 1 of the permit to determine monitoring study design and implementation schedule? (Year 1) If 'No', please provide a brief explanation.	N/A				
90	Indicate if you are or will be conducting water quality monitoring individually or as part of a regional program. (Years 1 and 2) If regional program, list the name of the program in the text box below. If a Permittee has a population less than 50,000 AND is not required to conduct ASBS, TMDL or 303(d) Monitoring (Sections E.13.(a)-(c)), then enter N/A					
91	Provide a status update regarding the development (including consultation with Regional Boards, if applicable), submittal and/or approval of the monitoring study design and implementation schedule. (Year 1)					
92	Upload the Monitoring Study Design and any available results for the monitoring option that applies to your jurisdiction. (Year 2)					
93	Provide a summary of the implementation of the water quality monitoring program and related results. (Year 3-9) Upload the Monitoring Study Results if monitoring was completed in the current reporting year.			Refer to attached 303(d) Monitoring Program Results		
null	PROGRAM EFFECTIVENESS ASSESSMENT					
94	Developed and implemented a Program Effectiveness Assessment and Improvement Plan (PEAIP) that includes the minimum requirements listed in section E.14.a(ii)(a-f))? (Year 2) Continued to implement the PEAIP? (Years 3-9) If 'No', please provide a brief explanation. If 'Yes', upload required PEAIP as attachment if changes have been made to the PEAIP since being uploaded for previous annual reports.	Yes				
95	Provide a description of implementation of the Program Effectiveness Assessment and Improvement Plan, a summary of data obtained through effectiveness assessment measures and the short and long-term progress of the storm water program and an analysis of the data as described in section E.14.a(iii) of the permit. Select "Upload as an attachment" to attach a description/summary/analysis or "No attachment" to explain why an attachment was not included. (Years 3-9) {required}	Upload as an attachment		Refer to attached PEAIP Annual Summary Reports		
96	Identified and summarized BMP and/or program modification identified in priority program areas that will be made in next permit term? (E.14.b.(ii)(a-d)) (Year 5) If 'No', please provide a brief explanation. If 'yes', upload required PEAIP as attachment. {required if 'Yes'}	N/A				
null	TOTAL MAXIMUM DAILY LOADS COMPLIANCE REQUIREMENTS					

97	Attached TMDL implementation status report that includes the information listed in section E.15.d(i-iv)? (Years 1-9) {required if 'Yes'} If 'No', please provide a brief explanation.	NA		Although the Santa Ynez River is a 303(d) impaired water body, it was not identified within "Phase II Permit Traditional Small MS4 Attachment G-Region Specific Requirements" that outlines Regional Water Board Approved TMDLs.		
null	ADDITIONAL INFORMATION					
98	Optional: If you have any additional information, reports or attachments that you would like to provide to describe your storm water program please use the text box and/or the upload attachment button below. (Years 1-9)			Refer to attached CASQA OWOW Annual Summary Report FY 2021-2022 (September 2022)		

Phase II Small MS4 Annual - Report - 2021-2022

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualilfied personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that threre are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Rose Hess	**Title: Director of Public Works**	**Date: 10/06/2022**

Phase II Small MS4 Annual - Report - 2021-2022

ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
2021-2022 303(d) Monitoring Program Results	2021-2022 303(d) Monitoring Program Results	2022-09-22 23:02:15.0	Supporting Documentation	80ec3f3d1fd0c0f13cfe4e7fd33b52f816168316be41299f207895a2d7a3c774	1/1
2021-2022-PEAIP Annual Summary-Solvang	2021-2022-PEAIP Annual Summary-Solvang	2022-10-05 18:43:50.0	Supporting Documentation	97b97bd8274aabeac2fedfa7b0179b5b61f7434ccb31cb8a12df137f97a6e587	1/1
2021-2022-PEAIP Annual Summary-Buellton	2021-2022-PEAIP Annual Summary-Buellton	2022-09-29 19:31:57.0	Supporting Documentation	b972a1d5c2aad64b9834a07e9b368cb2716821b085d8764aa951b8918b269f5	1/1
2021-2022 CASQA OWOW Annual Summary Report	2021-2022 CASQA OWOW Annual Summary Report	2022-09-27 12:16:58.0	Supporting Documentation	62e5f678844c4f246f775bbb1dfdd6e1786d7ac6c50d697bd3fbb659c91	1/1

County of Santa Barbara Public Works Department
Project Clean Water
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(805) 568-3440 FAX (805) 568-3434
www.sbprojectcleanwater.org

SCOTT D. MCGOLPIN
Director

WALTER RUBALCAVA
Deputy Director

Memorandum

Date: September 16, 2022

To: 303(d) Monitoring Partner Agencies:
Erin Maker, Carpinteria
Melissa Nelson, Goleta
Mary Zepeda, Solvang
Rose Hess, Buellton

From: Cathleen Garnand, Project Clean Water Manager, County of Santa Barbara

Subject: Transmittal of 303(d) Monitoring Program Results, 2021-2022

The following summary and supporting documents describe implementation of the seventh year of the 303(d) monitoring effort.

Background

In accordance with the NPDES California Phase II General Municipal MS4 Permit (Permit) Section E.13.c *303(d) Monitoring* requirements, the County of Santa Barbara Project Clean Water (County), along with the Cities of Carpinteria, Goleta, Solvang, and Buellton (Partner Agencies), implemented the *303(d) Storm Water Monitoring Program*. This program, guided by the *Monitoring Plan* (Geosyntec 2016) and *Quality Assurance Project Plan* (QAPP, Geosyntec 2016), was approved by the Central Coast Regional Water Quality Control Board in their letter dated March 4, 2016.

This program is also intended to address Permit Section E.14.a. *Program Effectiveness Assessment and Improvement Plan* requirements by applying the results of the wet weather monitoring from representative urban land use sites to the pollutant Load, Prioritization, Reduction (LPR) Model. The first three years of sampling data were analyzed and summarized in the *Urban Stormwater Monitoring Report* (Geosyntec, Sept 2018). Recommendations from the report that were implemented in this 2020-2021 sampling year include:

- Continue monitoring to create a sufficiently robust dataset in order to determine whether mean concentration values used in the LPR Model should be replaced.
- Discontinue pesticides that were not detected in the first three years of the program: carbamates and urea pesticides, diuron and degradates, and neonicotinoids.
- Discontinue toxicity because there was no statistically significant correlation found between toxicity and the measured constituents that would cause toxicity (e.g., pesticides, metals, and nutrient detections); without correlation, the data do not provide substantial insight into the characterization of storm water discharges or otherwise inform management decisions.

Additionally, after the October 25, 2021 sampling event, it was determined that sufficient data had been collected to date to populate the model for the residential land use; therefore, monitoring was not conducted at the Solvang and Carpinteria residential land use sites at the latter events.

Summary

During the reporting period of Jul 1, 2021 – Jun 30, 2022, four wet weather events were monitored per the following documents:

- *Urban Storm Water Monitoring Plan 2015-2018* (Geosyntec 2016)
- *303(d) Storm Water Sampling, Field Sampling Protocol* (County 2020)
- *303(d) Sampling Details* (County 2020)

Three monitoring events per year are targeted for each reference land use site. Table 1 summarizes the event information.

Table 1. Sample Date, Event Total Rainfall, Location, and Reference Land Use

Sample Date	Event Total Rainfall (inches)	Sample Location	Reference Land Use
10/25/21	1.12	Buellton	Industrial
10/25/21	1.29	Solvang	Residential
10/25/21	1.32	Goleta	Commercial
10/25/21	1.32	Goleta	Industrial
10/25/21	0.75	Carpinteria	Residential
10/25/21	0.75	Carpinteria	Urban Agriculture
12/14/21	2.39	Buellton	Industrial
12/14/21	2.58	Goleta	Industrial
12/14/21	2.54	Carpinteria	Urban Agriculture
12/29/21	0.06	Buellton	Industrial
12/29/21	0.25	Goleta	Commercial*
12/29/21	0.25	Goleta	Industrial
3/28/22	0.9	Goleta	Commercial*
3/28/22	0.94	Carpinteria	Urban Agriculture

Notes: * New monitoring location, due to lack of access at the former commercial land use site.

The *Sampling Log* (Attachment 1) describes the storm events that were tracked throughout the year. The log includes details on forecasts, events that were considered but not monitored, and events that were aborted for reasons such as lack of sufficient runoff forecast or other constraints.

The monitoring results are provided in Attachment 2. Note that numeric thresholds or standards do not exist for many of the parameters analyzed. Those that do have comparative benchmark, criteria, or basin plan objectives, are listed in Attachment 3, along with the sources. Results where values exceeded a benchmark, criteria, or Central Coast Basin Plan objective are discussed below.

Total Aluminum (1,000 micrograms per liter [ug/L])
Carpinteria Residential (1,000 ug/L)
Carpinteria Urban Agriculture (3,600 ug/L; 1,900 ug/L; 1,500 ug/L)
Goleta Industrial (1,800 ug/L; 3,700 ug/L)

Possible anthropogenic sources of aluminum are galvanized metal surfaces (roofing, gutters, fences, etc.), automotive parts, and aluminum foil.

Dissolved Copper (10 ug/L)
Carpinteria Urban Agriculture (31 ug/L, 21 ug/L)
Goleta Commercial (17 ug/L)
Goleta Industrial (11 ug/L)

Possible anthropogenic sources of copper are pesticides and herbicides, copper brake pads, and vehicle parts, and roofing and metal plating.

L-Cyhalothrin (3.5 nanograms per liter [ng/L])
Carpinteria Urban Agriculture (4.9 ng/L)

Commercial products used to control insects may be a potential source of L-Cyhalothrin. Pyrethroid insecticides have been used for decades by homeowners, farmers, and commercial pest control operators.

Total Nitrogen (0.38 milligrams per liter [mg/L])
Buellton Industrial (1 mg/L, 0.77 mg/L, 1.5 mg/L)
Carpinteria Residential (1.8 mg/L)
Carpinteria Urban Agriculture (16 mg/L, 6.2 mg/L, 18 mg/L)
Goleta Commercial (0.93 mg/L, 2.0 mg/L)
Goleta Industrial (1.4 mg/L, 1.9 mg/L, 2.3 mg/L)
Solvang Residential (2.6 mg/L)

Possible anthropogenic sources of nitrogen are fertilizers in landscaping runoff, improper management of pet and yard wastes, and to a lesser degree, human waste (i.e., outdoor toileting).

Dissolved Phosphorus (0.02188 mg/L)
Buellton Industrial (0.16 mg/L, 0.15 mg/L, 0.20 mg/L)
Carpinteria Residential (0.25 mg/L)
Carpinteria Urban Agriculture (12 mg/L, 2.3 mg/L, 12 mg/L)
Goleta Commercial (0.080 mg/L, 0.30 mg/L)
Goleta Industrial (0.19 mg/L, 0.25 mg/L, 0.22 mg/L)

Solvang Residential (0.27 mg/L)

Possible anthropogenic sources of phosphorus are fertilizers in landscaping runoff, improper management of pet and yard wastes, and to a lesser degree, human waste (i.e., outdoor toileting).

Attachment 1 – Sampling Log for 2021-2022

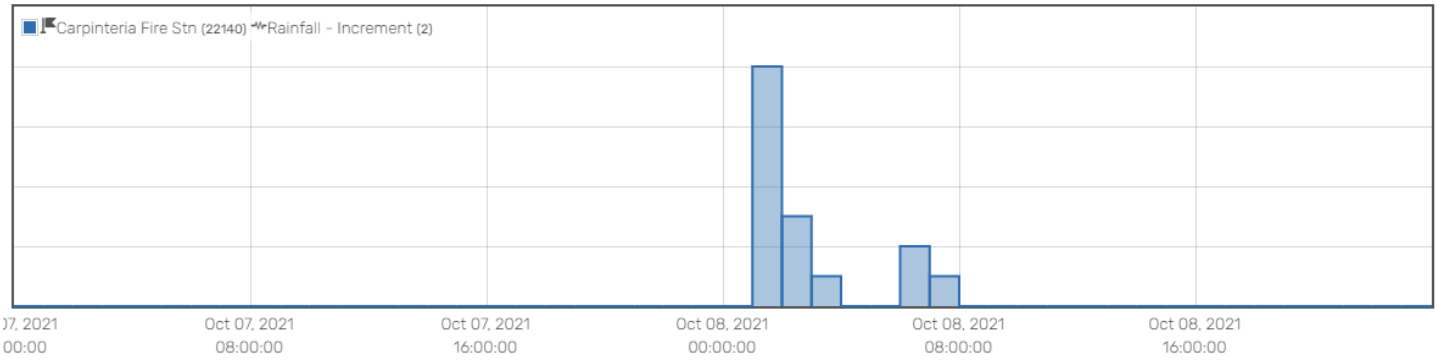
Rainfall data sources and distance to sampling locations

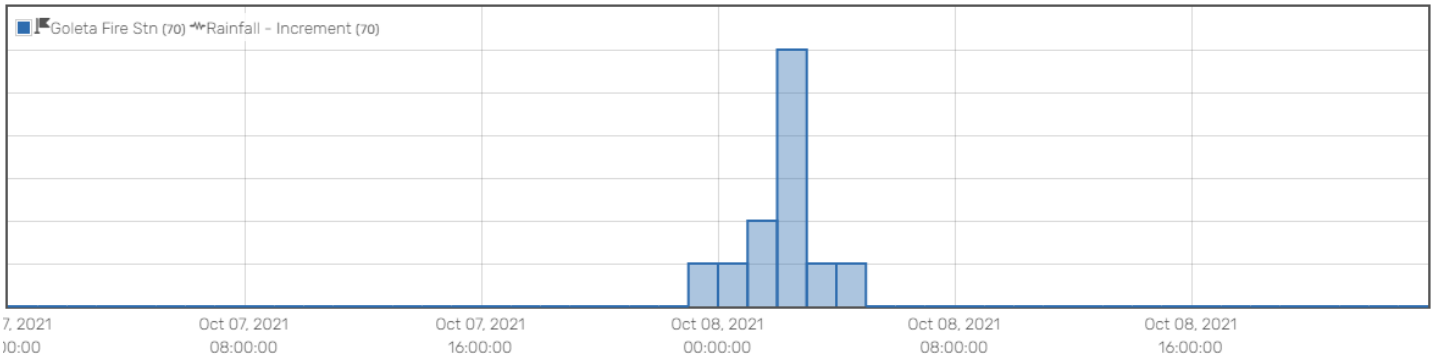
- Carpinteria: Santa Barbara County Flood Control District Official Daily Rainfall Record Station 208, Carpinteria Fire Station, within 0.75 miles of Carpinteria urban agriculture and residential monitoring locations.
- Goleta: Santa Barbara County Flood Control District Daily Rainfall Record Station 440 Goleta Fire Station, within 1.1 miles of Goleta commercial and 2 miles of Goleta industrial monitoring locations.
- Buellton: Santa Barbara County Flood Control District Official Daily Rainfall Record Station 233 Buellton Fire Station #31, within 0.50 mile of the Buellton industrial monitoring location.
- Solvang: Santa Barbara County Flood Control District Official Daily Rainfall Record Station 393 Solvang PW Water, within 1.3 miles of the Solvang residential monitoring location.

Rainfall amounts noted below are per storm, not rainfall day (as of 8:00 AM for previous 24 hours).

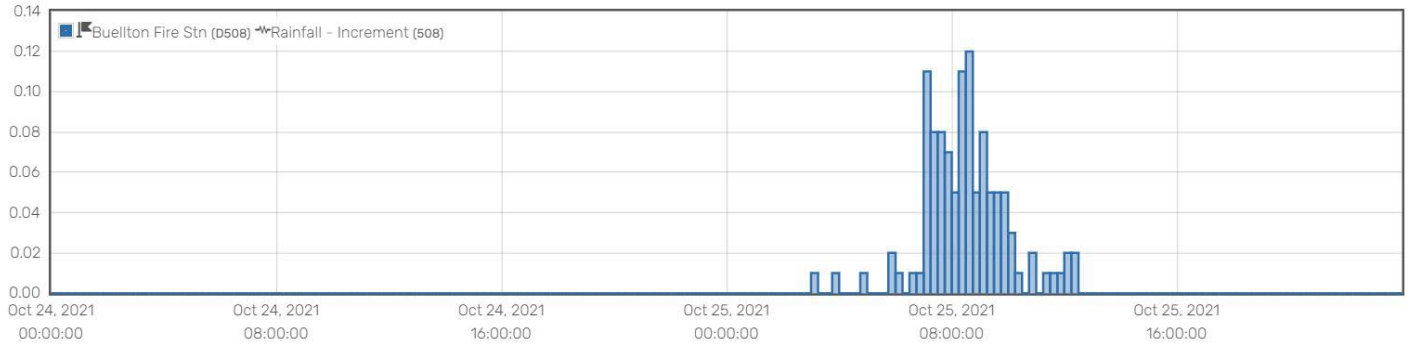
- Tuesday, October 5, 2021:
  - Preliminary forecast was for rain to begin early October 7, 2021, with rainfall totals 0.1 to 0.25” throughout Southern California, although no significant rainfall north of Goleta was predicted.
  - The County coordinated with the Partner Agencies to staff the monitoring event.
- Thursday, October 7, 2021:
  - Weather report reflected no measurable rain predicted for South SB County.
  - County cancelled monitoring the event the evening of October 7, 2021 due to less than 0.1” rainfall predicted for South SB County.

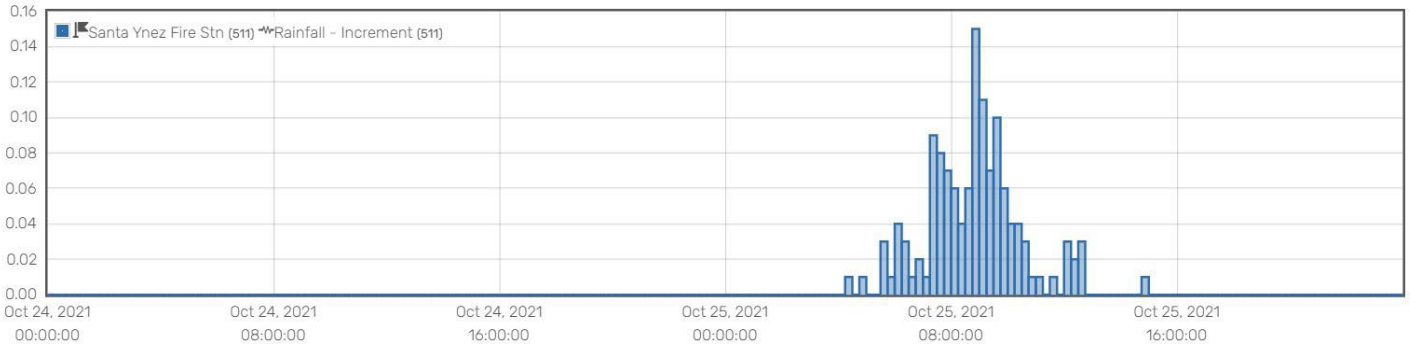
Storm rainfall totals October 7-8, 2021:
Goleta 0.12”, Carpinteria 0.15”

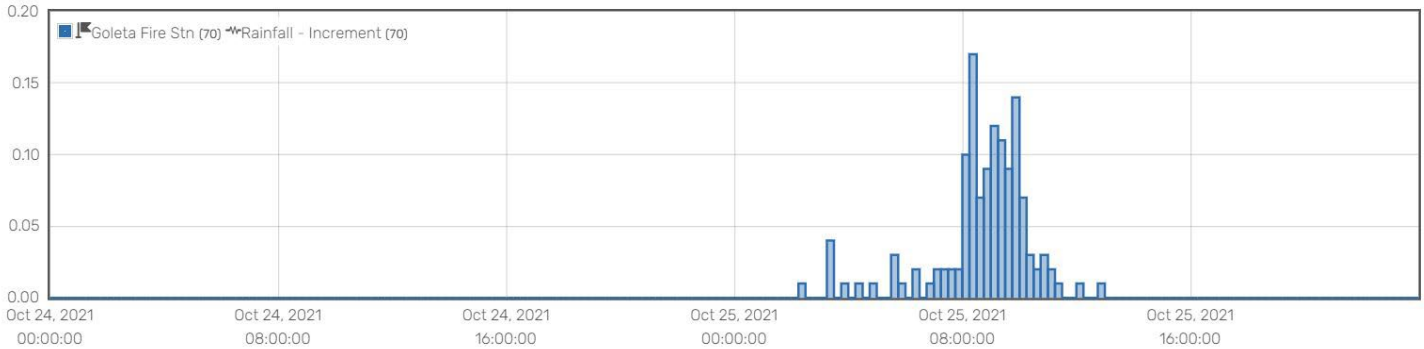


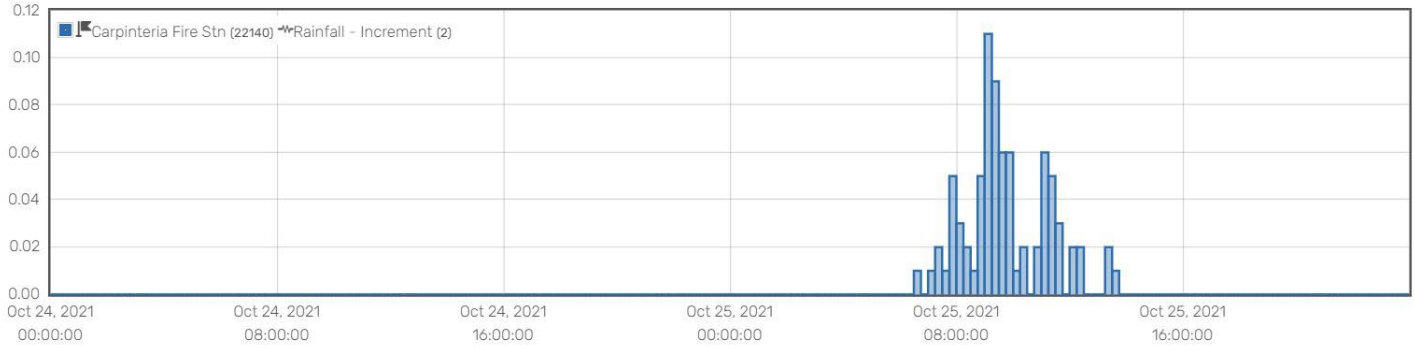


- Tuesday, October 19, 2021:
  - Preliminary forecast on October 25, 2021 predicted 2” of rain for the Central Coast area.
  - The County coordinated with Partner Agencies to staff the event.
- Wednesday, October 20, 2021:
  - Forecast predicted an event total of 1.7”.
  - The sampling window was set for early Monday morning.
  - Monitoring staff, sample courier, and laboratory sample acceptance was confirmed.
- Monday, October 25, 2021:
  - All applicable sites were collected successfully (Buellton Industrial, Solvang Residential, Goleta Commercial, Goleta Industrial, Carpinteria Residential, and Carpinteria Urban Agriculture).
  - Event rainfall totals were:
    - Buellton 1.12”
    - Santa Ynez 1.29”
    - Goleta 1.32”
    - Carpinteria 0.75”



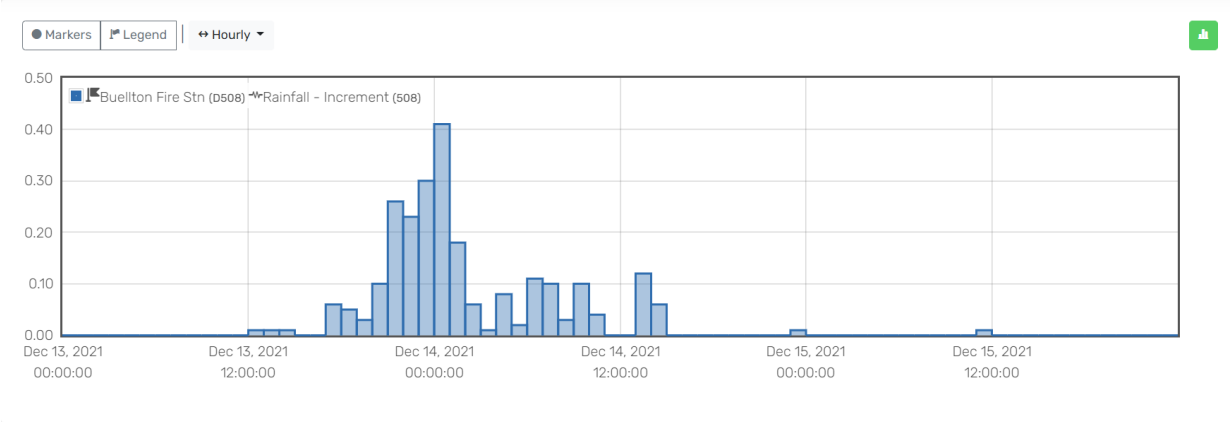


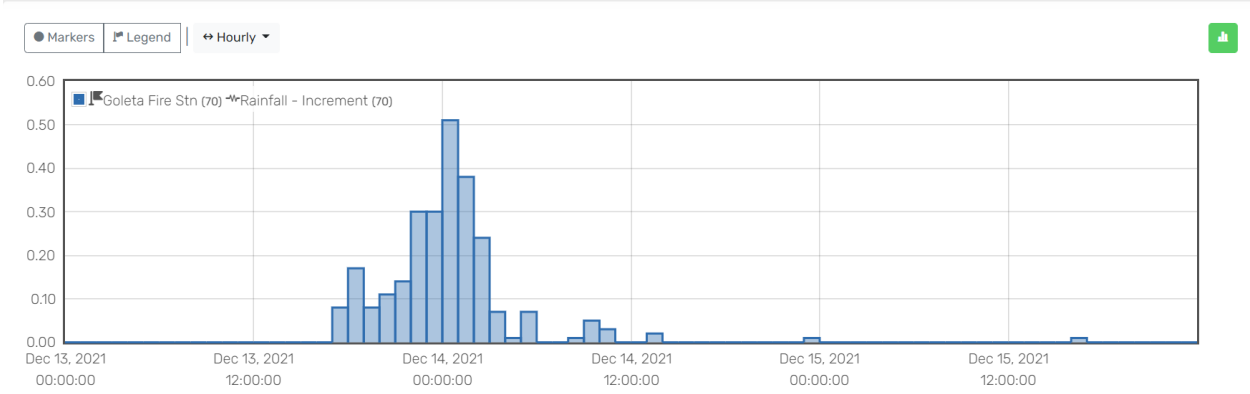


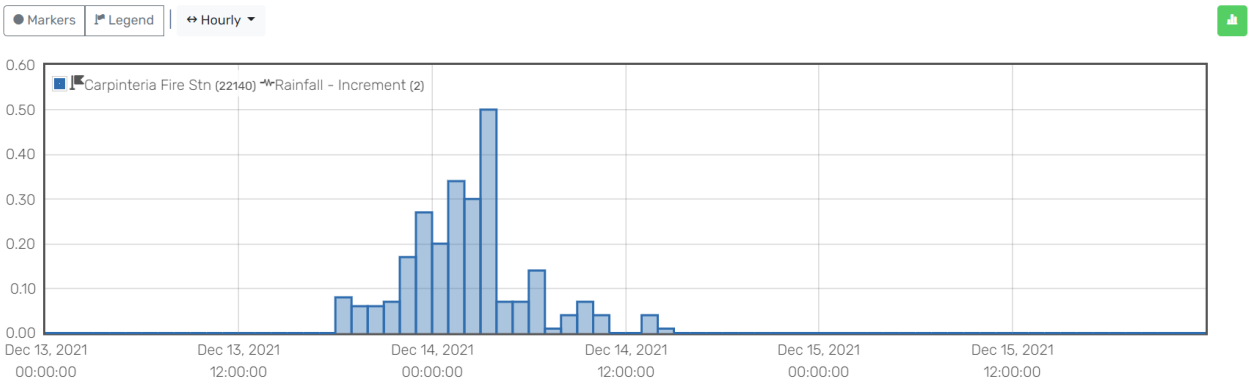


- Thursday, November 4, 2021:
  - Preliminary forecast for rainfall on November 9, 2021.
- Friday, November 5, 2021:
  - The forecast weakened from initial predictions, with 0.1” to 0.25” predicted north of Point Conception and light chance of rain on the South Coast.

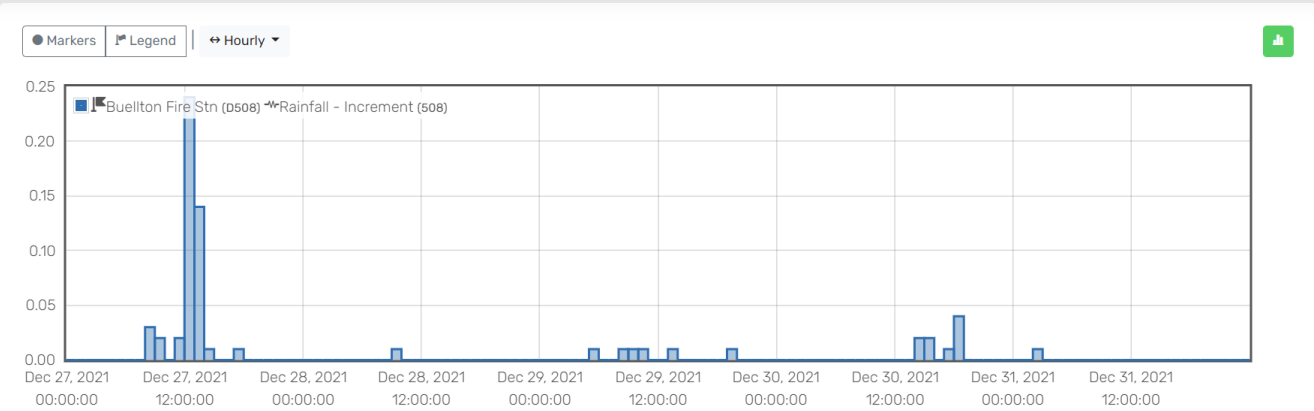
- Monday, November 8, 2021:
  - Forecast decreased significantly.
  - The County cancelled the monitoring event.
- Wednesday, November 10, 2021:
  - The event rainfall totals were:
    - Buellton: 0.13”
    - Santa Ynez: 0.11”
    - Goleta: 0.02”
    - Carpinteria: 0.01”
- Thursday, December 9, 2021:
  - Preliminary forecast for rain December 13, 2021 into the morning of December 14, 2021.
  - The County coordinated monitoring staff for the event.
- Monday, December 13, 2021:
  - Precipitation began approximately 6:00 PM.
- Tuesday, December 14, 2021:
  - Sampling was initiated Tuesday morning at all locations other than Solvang and Carpinteria residential land use sites (Buellton Industrial, Goleta Industrial, and Carpinteria Urban Agriculture). Additionally, access was denied to the Goleta commercial land use site and monitoring was aborted.
  - The event rainfall totals were:
    - Buellton 2.39”
    - Goleta 2.58”
    - Carpinteria 2.54”

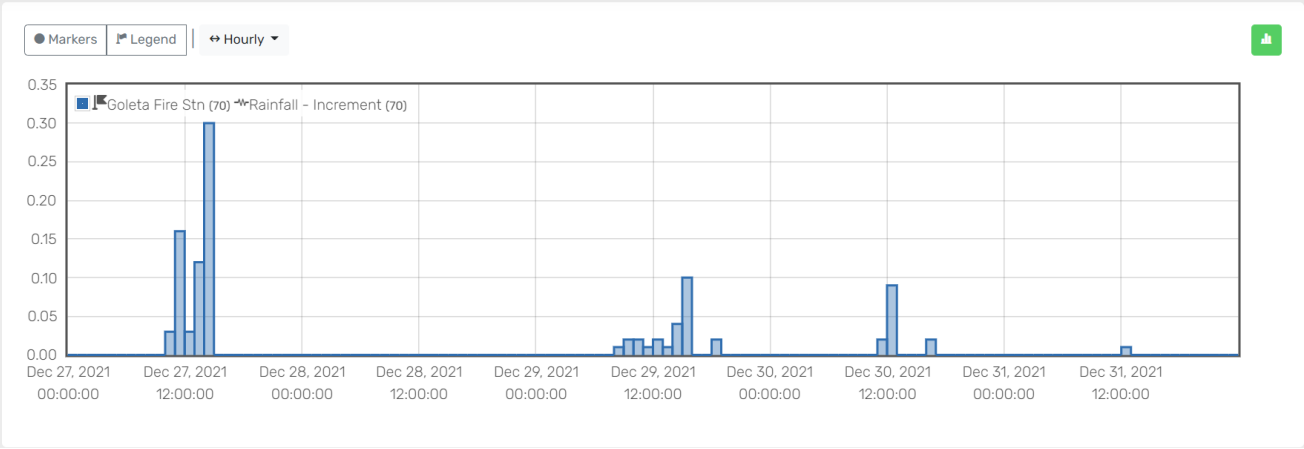




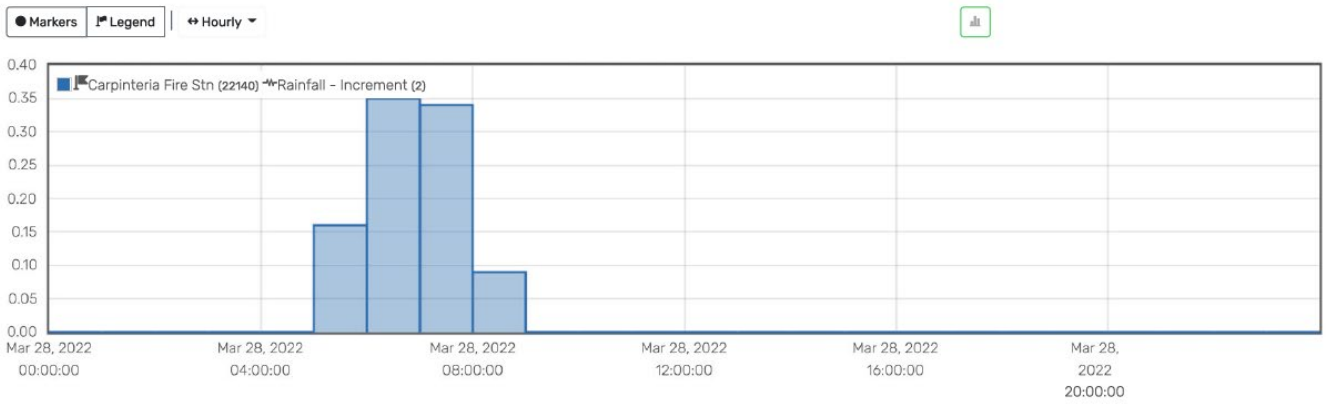


- Tuesday, December 21, 2021:
  - A rain event was forecast December 23, 2021, but could not be sampled due to the lab's holiday schedule.
  - Another rain event was forecast for December 28 and 29.
  - The County coordinated staffing for the event.
- Monday, December 27, 2021:
  - Monitoring was confirmed for December 29, 2021.
  - Due to issues with a sampling device, the Carpinteria urban agriculture site would not be monitored during this storm.
- Wednesday, December 29, 2021:
  - Three sites were collected successfully during this rain event: Buellton Industrial, Goleta Industrial, and Goleta Commercial. Note: Goleta Commercial had an error on CoC form and therefore not all parameters were analyzed at the lab.
  - Event rainfall totals:
    - Buellton 0.06"
    - Goleta 0.25"





- Thursday, March 24, 2022:
  - Storm forecast for March 28, 2021.
  - Contacted partners requesting availability to sample.
  - Remaining monitoring locations to be sampled were Carpinteria urban agriculture and Goleta commercial (new location).
  -
- Monday, March 28, 2022:
  - Samples were successfully collected at both locations (Carpinteria urban agriculture and Goleta commercial)
  - Event rainfall totals:
    - Carpinteria 0.94”
    - Goleta 0.90”



Recent

15 Min	30 Min	1 Hour	3 Hour	6 Hour	12 Hour	24 Hour
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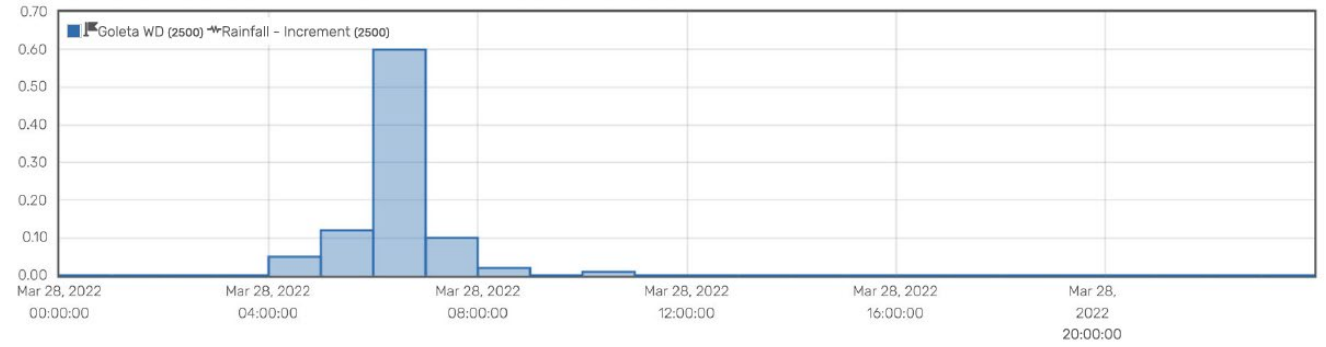

Recent

15 Min	30 Min	1 Hour	3 Hour	6 Hour	12 Hour	24 Hour
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Attachment 2 – Lab Results for 2021-2022

Analyte	25 Oct 2021 Buellton Industrial	25 Oct 2021 Carpinteria Residential	25 Oct 2021 Carpinteria Urban Agriculture	25 Oct 2021 Goleta Commercial	25 Oct 2021 Goleta Industrial	25 Oct 2021 Solvang Residential	14 Dec 2021 Goleta Industrial	14 Dec 2021 Carpinteria Urban Agriculture	14 Dec 2021 Buellton Industrial	29 Dec 2021 Goleta Industrial	29 Dec 2021 Buellton Industrial	29 Dec 2021 Goleta Commercial	28 Mar 2022 Goleta Commercial	28 Mar 2022 Carpinteria Urban Agriculture	Units	Water Quality Guidance (applicable source is in referenced in Attachment 3)	Units	Analyte
1,3-Dimethyl-2-nitrobenzene [surr]	420	426	2440	452	459	501	458	738	492	2020	442	-	374	377	%	NA	NA	1,3-Dimethyl-2-nitrobenzene [surr]
Allethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	1.05	ug/l	Allethrin
Aluminum, Dissolved	ND	26	43	ND	24	ND	28	49	ND	33	28	-	22	42	ug/l	NA	NA	Aluminum, Dissolved
Aluminum, Total	940	1000	3600	470	1800	340	940	1900	460	3700	880	-	230	1500	ug/l	1000	ug/l	Aluminum, Total
Ammonia as N	0.2	0.26	0.28	0.13	0.19	0.15	ND	0.15	ND	0.18	0.10	0.48	0.19	0.27	mg/l	NA	NA	Ammonia as N
Azinphos methyl (Guthion)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.08	ug/l	Azinphos methyl (Guthion)
Bifenthrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	800	ug/l	Bifenthrin
Bolstar	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Bolstar
Cadmium, Dissolved	ND	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ug/l	1.8	ug/l	Cadmium, Dissolved
Cadmium, Total	0.31	ND	0.43	ND	0.25	ND	0.21	ND	ND	0.35	ND	-	ND	0.22	ug/l	1.8	ug/l	Cadmium, Total
Calcium, Total	10.6	6.97	34.2	3.54	7.77	11.3	10.7	13.5	6.81	20.8	19.0	-	9.19	25.4	mg/l	NA	NA	Calcium, Total
Chlorpyrifos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.05	ug/l	Chlorpyrifos
Copper, Dissolved	4.1	4.9	31	3.4	6.8	4.5	9.4	8	2.9	11	8.4	-	17	21	ug/l	10	ug/l	Copper, Dissolved
Copper, Total	13	9.5	38	7.4	18	6.3	15	13	5.4	24	13	-	20	25	ug/l	NA	NA	Copper, Total
Coumaphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.037	ug/l	Coumaphos
Cyfluthrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	12.5	ng/l	Cyfluthrin
Cypermethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	210	ng/l	Cypermethrin
Deltamethrin/Tralomethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.055	ug/l	Deltamethrin/Tralomethrin
Demeton-o	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Demeton-o
Demeton-s	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Demeton-s
Desulfinylfipronil	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	100	ug/l	Desulfinylfipronil
Diazinon	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	105	ng/l	Diazinon
Dichloran	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA	Dichloran
Dichlorvos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.035	ug/l	Dichlorvos
Dimethoate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	21.5	ug/l	Dimethoate
Disulfoton	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	1.95	ug/l	Disulfoton
Ethoprop	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	22	ug/l	Ethoprop
Ethyl parathion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Ethyl parathion
Fenpropathrin (Danitol)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.265	ug/l	Fenpropathrin (Danitol)
Fensulfothion	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Fensulfothion
Fenthion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	2.6	ug/l	Fenthion
Fenvalerate/Esfenvalerate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA	Fenvalerate/Esfenvalerate
Fipronil	31	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.11	ug/l	Fipronil
Fipronil sulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA	Fipronil sulfide
Fipronil sulfone	35	34	ND	ND	ND	29	ND	ND	31	ND	22	ND	ND	ND	ng/l	0.36	ug/l	Fipronil sulfone
Hardness as CaCO3, Total	35.5	24.9	140	11.7	26.8	39.1	34.8	53.7	21.4	69.4	63.3	-	29.1	105	mg/l	>100 = hard, <100=soft	mg/l CaCO3	Hardness as CaCO3, Total
Iron, Dissolved	31	35	210	28	42	23	40	100	31	43	48	-	36	220	ug/l	5000	ug/l	Iron, Dissolved
Iron, Total	1500	1400	5400	700	2600	570	1200	2300	680	4600	1300	-	370	2300	ug/l	NA	NA	Iron, Total
L-Cyhalothrin	ND	ND	76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	ng/l	3.5	ng/l	L-Cyhalothrin
Lead, Dissolved	ND	0.30	3.6	ND	0.42	ND	0.66	0.52	ND	0.27	ND	-	0.38	2.1	ug/l	50	ug/l	Lead, Dissolved
Lead, Total	2.1	2.0	11	0.98	6.9	0.43	7.7	2.4	0.79	13	1.2	-	2.0	4.6	ug/l	NA	NA	Lead, Total
Magnesium, Total	2.22	1.83	13.4	0.698	1.80	2.63	1.99	4.83	1.07	4.25	3.86	-	1.51	10.2	mg/l	NA	NA	Magnesium, Total
Malathion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.1	ug/l	Malathion
Merphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Merphos
Methyl parathion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.485	ug/l	Methyl parathion
Mevinphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Mevinphos
Naled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.07	ug/l	Naled
Nitrate as N	0.31	0.59	12	0.22	0.34	0.28	0.57	4.8	0.32	0.59	0.33	0.57	0.41	15	mg/l	NA	NA	Nitrate as N
Nitrite as N	ND	ND	250	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	150	ug/l	NA	NA	Nitrite as N
Nitrogen, Total	1	1.8	16	0.93	1.4	2.6	1.9	6.2	0.77	2.3	1.5	-	2.0	18	mg/l	0.38	mg/l	Nitrogen, Total
NO2+NO3 as N	310	590	12000	220	340	280	620	4900	340	670	410	-	460	15000	ug/l	NA	NA	NO2+NO3 as N
o-Phosphate as P	0.31	0.26	13	0.12	0.21	0.30	0.27	4200	0.15	0.23	0.19	0.16	0.36	13	mg/l	NA	NA	o-Phosphate as P

Analyte	25 Oct 2021 Buellton Industrial	25 Oct 2021 Carpinteria Residential	25 Oct 2021 Carpinteria Urban Agriculture	25 Oct 2021 Goleta Commercial	25 Oct 2021 Goleta Industrial	25 Oct 2021 Solvang Residential	14 Dec 2021 Goleta Industrial	14 Dec 2021 Carpinteria Urban Agriculture	14 Dec 2021 Buellton Industrial	29 Dec 2021 Goleta Industrial	29 Dec 2021 Buellton Industrial	29 Dec 2021 Goleta Commercial	28 Mar 2021 Goleta Commercial	28 Mar 2021 Carpinteria Urban Agriculture	Units	Water Quality Guidance	Units	Analyte
o-Phosphate as P, dissolved	310	260	13000	120	220	300	270	1200	150	230	190	-	360	13000	mg/l	NA	NA	o-Phosphate as P, dissolved
Pendimethalin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	140	ug/l	Pendimethalin
Permethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	10.6	ng/l	Permethrin
Perylene-d12 [surr]	141	173	155	154	162	134	148	113	180	194	175	209	196	178	%	NA	NA	Perylene-d12 [surr]
Phorate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	0.3	ug/l	Phorate
Phosphorus, Dissolved	0.16	0.25	12	0.080	0.19	0.27	0.25	2.3	0.15	0.22	0.20	-	0.30	12	mg/l	0.02188	mg/l	Phosphorus, Dissolved
Phosphorus, Total	0.58	0.37	12	0.19	0.38	0.36	0.41	2.4	0.21	0.49	0.31	-	0.44	12	mg/l	NA	NA	Phosphorus, Total
Prallethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	3.1	ug/l	Prallethrin
Ronnel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Ronnel
Stirophos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Stirophos
Sumithrin (Phenothrin)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	2.2	ug/l	Sumithrin (Phenothrin)
Tefluthrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.035	ug/l	Tefluthrin
TKN	0.7	1.2	3.4	0.71	1.0	2.3	1.3	1.3	0.43	1.6	1.1	-	1.5	2.2	mg/l	NA	NA	TKN
Tokuthion (Prothiofos)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Tokuthion (Prothiofos)
Total Suspended Solids	88	64	350	30	76	15	18	59	16	110	13	-	20	110	mg/l	NA	NA	Total Suspended Solids
Trichloronate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ng/l	NA	NA	Trichloronate
Triphenyl phosphate [surr]	1410	930	3610	893	1100	947	1020	1030	777	3950	821	267	719	524	%	NA	NA	Triphenyl phosphate [surr]
	289	252	190	314	420	264	210	108	193	573	218	-	382	207	%	NA	NA	
Zinc, Dissolved	140	25	320	73	54	ND	80	91	54	60	84	-	94	270	ug/l	4	ug/l	Zinc, Dissolved
Zinc, Total	280	63	390	110	180	15	130	110	84	210	140	-	130	290	ug/l	NA	NA	Zinc, Total

Notes:
ND not detected
NA no applicable water quality guidance
- parameter not analyzed due to a Chain of Custody error

Attachment 3 - Water Quality Benchmarks and Thresholds

Analyte	Source Water Quality Guidance
1,3-Dimethyl-2-nitrobenzene [surr]	
Allethrin	OPP Aquatic Life Benchmarks, acute invertebrates
Aluminum, Dissolved	
Aluminum, Total	Water Quality Control Plan for the Central Coast Basin, Municipal/Domestic, 2011
Ammonia as N	
Azinphos methyl (Guthion)	OPP Aquatic Life Benchmarks, acute invertebrates
Bifenthrin	OPP Aquatic Life Benchmarks, acute invertebrates
Bolstar	
Cadmium, Dissolved	USEPA Aquatic Life Ambient Water Quality Criteria, acute freshwater 2016
Cadmium, Total	USEPA Aquatic Life Ambient Water Quality Criteria, acute freshwater 2016
Calcium, Total	
Chlorpyrifos	OPP Aquatic Life Benchmarks, acute invertebrates
Copper, Dissolved	Water Quality Control Plan for the Central Coast Basin, Aquatic Life, 2011
Copper, Total	
Coumaphos	OPP Aquatic Life Benchmarks, acute invertebrates
Cyfluthrin	OPP Aquatic Life Benchmarks, acute invertebrates
Cypermethrin	OPP Aquatic Life Benchmarks, acute invertebrates
Deltamethrin/Tralomethrin	OPP Aquatic Life Benchmarks, acute invertebrates
Demeton-o	
Demeton-s	
Desulfinylfipronil	OPP Aquatic Life Benchmarks, acute invertebrates
Diazinon	OPP Aquatic Life Benchmarks, acute invertebrates
Dichloran	
Dichlorvos	OPP Aquatic Life Benchmarks, acute invertebrates
Dimethoate	OPP Aquatic Life Benchmarks, acute invertebrates
Disulfoton	OPP Aquatic Life Benchmarks, acute invertebrates
Ethoprop	OPP Aquatic Life Benchmarks, acute invertebrates
Ethyl parathion	
Fenpropathrin (Danitol)	OPP Aquatic Life Benchmarks, acute invertebrates
Fensulfothion	
Fenthion	OPP Aquatic Life Benchmarks, acute invertebrates
Fenvalerate/Esfenvalerate	
Fipronil	OPP Aquatic Life Benchmarks, acute invertebrates
Fipronil sulfide	
Fipronil sulfone	OPP Aquatic Life Benchmarks, acute invertebrates
Hardness as CaCO3, Total	Water Quality Control Plan for the Central Coast Basin, 2011
Iron, Dissolved	Water Quality Control Plan for the Central Coast Basin, Agricultural, 2011
Iron, Total	
L-Cyhalothrin	OPP Aquatic Life Benchmarks, acute invertebrates
Lead, Dissolved	Water Quality Control Plan for the Central Coast Basin, Municipal/Domestic, 2011
Lead, Total	

Analyte	Source Water Quality Guidance
Magnesium, Total	
Malathion	USEPA Aquatic Life Criteria, chronic freshwater
Merphos	
Methyl parathion	OPP Aquatic Life Benchmarks, acute invertebrates
Mevinphos	
Naled	OPP Aquatic Life Benchmarks, acute invertebrates
Nitrate as N	
Nitrite as N	
Nitrogen, Total	USEPA Nutrient Criteria Rivers and Streams Ecoregion III, 2002
NO2+NO3 as N	
o-Phosphate as P	
o-Phosphate as P, dissolved	
Pendimethalin	OPP Aquatic Life Benchmarks, acute invertebrates
Permethrin	OPP Aquatic Life Benchmarks, acute invertebrates
Perylene-d12 [surr]	
Phorate	OPP Aquatic Life Benchmarks, acute invertebrates
Phosphorus as P, Total	USEPA Nutrient Criteria Rivers and Streams Ecoregion III, 2002
Phosphorus, Dissolved	
Prallethrin	OPP Aquatic Life Benchmarks, acute invertebrates
Ronnel	
Stirophos	
Sumithrin (Phenothrin)	OPP Aquatic Life Benchmarks, acute invertebrates
Tefluthrin	OPP Aquatic Life Benchmarks, acute invertebrates
TKN	
Tokuthion (Prothiofos)	
Total Suspended Solids	
Trichloronate	
Triphenyl phosphate [surr]	
Triphenyl phosphate [surr]	
Zinc, Dissolved	Water Quality Control Plan for the Central Coast Basin, Aquatic Life, 2011
Zinc, Total	

City of Solvang

Storm Water Management Program

Program Effectiveness Assessment and Improvement Plan (PEAIP)

Annual Summary 2021-2022

SOLVANG

The Danish Capital of America

September 22, 2022

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS

BMPs	Best Management Practices
CASQA	California Stormwater Quality Association
CBSM	Community Based Social Marketing
CCAMP	Central Coast Ambient Monitoring Program
CCRWQCB	Central Coast Regional Water Quality Control Board
COB	City of Buellton
COS	City of Solvang
E&SCP	Erosion & Sediment Control Plan
EMCs	Event Mean Concentrations
FOG	Fats, Oil and Grease
LPRM	Load Prioritization and Reduction Model
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer Systems
NPDES	National Pollutant Discharge Elimination System
OWOW	Our Water Our World
PEAIP	Program Effectiveness Assessment and Improvement Plan
POCs	Pollutants of Concern
QAPP	Quality Assurance Plan
SMARTS	Storm Water Multiple Application and Report Tracking System
SMC	Solvang Municipal Code
SRP	Spill Response Plan
SWCP	Stormwater Control Plan
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TOM	Tip of Month
USWMP	Urban Stormwater Monitoring Plan

DEFINITIONS

Pollutant of Concern	A pollutant that is reasonably expected to be present in urban runoff and may reasonably be expected to affect the designated uses of the receiving water. Urban runoff pollutants of concern may include sediments, non-sediment solids, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, and/or pesticides and herbicides.
Program Element	Program Elements are distinct components of a stormwater program that focus on reducing pollutants from a particular activity or pollutant source/target audience. The Program Elements for the Phase II municipal stormwater program include the following: • Program Management • Education and Outreach • Public Involvement and Participation • Illicit Discharge Detection and Elimination • Construction • Pollution Prevention/Good Housekeeping • Post Construction • Water Quality Monitoring
Target Audience	A “Target Audience” consists of the people (individuals and populations) that are expected to gain knowledge or engage in the behaviors that a stormwater program is intended to elicit. BMPs and other controls are implemented by many types of third parties, so the term “target audience” is broadly defined and virtually any group of people could be a target audience, including municipal staff members, the general public, elected and appointed officials, other government agencies, etc.
Source	Anything with the potential to generate pollutants prior to their introduction to the MS4. A typical program broadly addresses the following source categories: residential areas, construction and development sites, commercial and industrial sources, and municipal operations. Sources may alternatively be defined by the populations associated with areas, facilities, or activities, e.g., residents, dog-walkers, mobile car washers, or restaurant employees.
Stormwater (“Storm Water”)	Any surface flow or storm drainpipe flow, runoff, and drainage consisting entirely of water from precipitation.

1.0 INTRODUCTION

The City of Solvang (COS and the City of Buellton (COB) prepared and submitted to the State Water Resources Control Board a multi-agency PEAIP for Year 2 on October 13, 2015, through the Storm Water Multiple Application and Report Tracking System (SMARTS) Database. COB and COS subsequently submitted a revision dated February 19, 2016, to be uploaded with Year 3 Annual Report. This report summarizes implementation of the PEAIP for Year 8 of the National Pollutant Discharge Elimination System's (NPDES) Phase II Small Municipal Separate Storm Sewer Systems (MS4) General Permit, for calendar year July 1, 2020, through June 30, 2021.

The purpose of the PEAIP is to track the short- and long-term effectiveness of the stormwater program, the specific measures that will be used to assess the effectiveness of the prioritized best management practices (BMPs), the groups of BMPs, and/or the stormwater program as a whole. The purpose of the PEAIP is also to provide a description of how the COB and COS will use the information obtained through the PEAIP to improve the stormwater program. The PEAIP outlines the approach that the COB and COS will use to adaptively manage its stormwater program to improve its effectiveness at reducing the identified high- and medium-priority Pollutants of Concern (POCs), thereby achieving the maximum extent practicable (MEP) standard and protecting water quality. The PEAIP is focused on the impact that the stormwater program is having rather than the strict implementation of the program. By focusing the Effectiveness Assessment on this manner, the COB and COS will increase their ability to understand if its stormwater program is achieving the intended outcomes and can identify necessary modifications to the program to make it more effective.

The PEAIP for Year 3-9 focused primarily on the California Stormwater Quality Association (CASQA) Outcome Levels for Target Audiences (Outcome Levels 2-3), and the Sources and Impacts (Outcome Level 4-5). The COB and COS developed management questions for high-priority POCs (Nutrients) and the medium-priority POCs (Sedimentation/Siltation and Total Suspended Solids), and then conducted a data collection assessment of each of these POCs. The data collected will be utilized by both the COB and COS to improve their respective stormwater program and protect water quality.

In order to determine the specific target audiences and the appropriate prioritized BMPs, the COB and COS reviewed the following: a) proposed TMDLs by the Central Coast Regional Water Quality Control Board (CCRWQCB), b) 2010 303(d) List of Impaired Waterbodies, c) CCRWQCB April 24th, 2014 Consultation Handout "Solvang – Buellton Urban Water Quality Profile", d) Central Coast Ambient Monitoring Program's (CCAMP) Ambient Water Quality Data, e) COB and COS Storm Water Management Plan's (SWMP) Guidance Document's List of POCs, and f) proposed regional Urban Storm Water Monitoring Plan. Best professional judgment, knowledge of local and/or regional water quality issues and common urban pollutants were also factors in the identification of POCs.

Target audiences for each source of high- and medium-priority POCs have been identified and the COB and COS have actively taken steps, during each permit year, to identify and bridge communication and action barriers through the selection and implementation of prioritized BMPs.

The prioritized BMPs reflect stormwater program activities that are intended to change behaviors of target audiences and result in pollutant source mitigation. The prioritized BMPs,

listed below in Figure 8 Prioritized BMP Identified for Target Audiences within COB and COS PEAIP, are being implemented as part of the Cities stormwater program, and where applicable, corresponding data was collected and analyzed at the close of Permit Year 9 in order to assess program effectiveness and identify opportunities for program improvement.

Although the PEAIP was developed as a multi-agency plan between the COB and the COS, each City will prepare and submit an individual PEAIP Annual Summary moving forward beginning in Year 8.

Below is the PEAIP Annual Summary for Year 9:

2.0 DATA ASSESSMENT/COLLECTION METHODS

For the PEAIP, the COS focused its data assessment for Nutrients and Sedimentation/Siltation (Total Suspended Solids) using the Management Questions, Data Assessment and Data Collection Methods outlined within Table 5 and 6 of the COB and COS PEAIP (Appendix A and B). The data assessment for each POC consisted primarily of a qualitative assessment and/or a descriptive statistic methodology and the data collection methods included internal tracking by stormwater program, review of external data sources, interviews/surveys, site investigations/inspections; and monitoring and sampling as described below within COB and COS PEAIP.

3.0 DATA ASSESSMENT/COLLECTION – DATA SUMMARY

3.1 NUTRIENTS

3.1.1 Education and Outreach (CASQA Outcome Level 2-3)

3.1.1.1 Brochure Distribution

The number of education and outreach materials distributed through stormwater brochure displays at the City facilities (City Hall, Planning Department and Parks and Recreation) related to Nutrients include: 6 Gardener's Guide to Clean Water; 3 Homeowners Guide to BMPs; 14 Recognizing and Reporting Stormwater Pollution; 5 The Ocean Begins on Your Street (3 English and 2 Spanish). In addition, the number of education and outreach materials distributed at the SYVBG Information Kiosk related to Nutrients include: 44 Gardener's Guide to Clean Water; 46 Recognizing and Reporting Stormwater Pollution; 68 Making the Connection (36 English and 32 Spanish). The COS distributed 100 stormwater bookmarks to both the Solvang Public Library and Solvang School. The City also maintains stormwater bookmarks at the front office of City Hall and within the Planning Department Brochure Display. It should be noted that since Year 5, stormwater education and outreach materials have been posted on the Solvang Public Library's Information Display Board.

During Year 9, the COS began issuing the Special Events Guide to BMPs with the on-line Special Event Permit Application. In addition, the City also distributed 7 Special Events Guide to BMPs via the brochure display within the Parks and Recreation office. In Year 10, the City will distribute begin attaching the Special Events Guide to BMPs to the applications at the Parks and Recreation Counter

3.1.1.2 Website File Views/Hits

Note: The Website File Views/Hits/Downloads data reported below is from the period July 1, 2021 - December 31, 2021. The City's Civic Plus platform was changed on January 1, 2022, resulting in data gaps for the File Views/Hits/Downloads counts. The City will be developing a new google analytic report to obtain the data from January 1, 2022, to present and will update the PEAIP Annual Report FY 2021-2022 when the data becomes available.

The COS's website received 455 File Views/Hits/Downloads on the following Nutrient related brochures: 128 Gardener's Guide to Clean Water (65 English and 63 Spanish); 127 Homeowner's Guide to BMPs (67 English and 60 Spanish); 134 The Ocean Begins on Your Street (67 English and 67 Spanish) and 66 Gardeners Use and Disposal Pesticide Fact Sheet.

The COS's website received 821 File Views/Hits/Downloads on the following BMP Guides/Posters: 129 Landscaper's Guide to BMPs (64 English and 65 Spanish); 125 Restaurant's Guide to BMPs (65 English and 60 Spanish); 126 Special Events Guide to BMPs (67 English and 59 Spanish); 124 Multi-Unit Residential Dwellings Guide to BMPs (64 English and 60 Spanish),69 Mobile Pet Groomer & Stylist Guide to BMPs (English and Spanish), 123 Mobile Cleaners Guide to BMPs (62 English and 61 Spanish) and 125 Cleaning Up Posters (65 English and 60 Spanish). The COS also provides weblinks to additional resources on the City's website to the Santa Barbara County Project Clean Water, Our Water Our World (OWOW), Less is More website and Santa Barbara County Water Wise website.

3.1.1.3 Event Participation

Note: The Earth Day Event that was hosted in the past by the Santa Ynez Valley Botanic Garden (SYVBG) has been cancelled until further notice. Instead of participating in that event, the COB will partner in the Santa Ynez Valley Open Streets event, which is scheduled for October 30, 2022. The event will promote wellness, sustainability, and healthy living. The SYVBG's Pooch-a-Palooza event was cancelled due to the COVID-19 pandemic. It may resume in 2023 but has not been scheduled at this point.

During Year 9, the COS participated in 2 education and outreach events (Buellton BBQ Bonanza, State of the City) and sponsored a Stormwater Display Booth at each event. The number of education and outreach materials distributed at these events related to Nutrients include: 1 Gardener's Guide to Clean Water; 2 Homeowner's Guide to BMPs; 0 Recognizing and Reporting Stormwater Pollution; 1 The Ocean Begins On Your Street (English); 2 Make the Connection) Giveaways: 5 COB & COS Stormwater Bookmarks)

The COS also supported a Coastal Cleanup Day (September 18, 2021) via Explore Ecology and the County of Santa Barbara's Resources Recovery & Waste Management Division that focused on local cleanup of the Zanja De Cota Creek located in Santa Ynez. In Year 10, the COS is planning to support the next Costal Cleanup Day (September 17, 2022).

The number of visitors to the City's sponsored event's Stormwater Display Booth were as follows: Buellton BBQ Bonanza (approximately 100 Visitors) and State of the City (5 Visitors).

3.1.1.4 Target Audience

3.1.1.4.1 Landscapers

The COS continues to annually distribute the Landscaper's Guide to BMPs to City approved Landscape Contractors; and distribute the guide to and other local landscapers when identified via direct mail, email. Additionally, the Santa Barbara County Water Agency continues to disseminate the Landscaper's Guide to BMPs digitally to all students attending the Green Gardener class offered on-line via Santa Barbara City College and/or Allan Hancock Community College.

3.1.1.4.2 Pet and Animal (Horse/Livestock) Owners

The COS collaborated with the Cities of Buellton, Carpinteria, Goleta, Lompoc, Santa Barbara, and the County of Santa Barbara on a new Pet Owner's Guide to BMPs that included topics such as minimizing toxic chemical use, wastewater, and waste management; and on a new Animal Care and Handling Facilities Guide to BMPs that included topics such as animal pens/structures/enclosures, bedding, composting, grazing and pasture, minimizing toxic chemical use, waste water and waste management. On April 21, 2022, both BMP Guides were finalized and posted to the City's website in both English and Spanish. Both COS and COS are working with the Santa Barbara County Animal Services to distribute the BMP Guides on behalf of the City's and Partner City's to Pet and Animal (Horse/Livestock) Owners.

3.1.1.5 Direct Mailers/Media Campaign

3.1.1.5.1 Articles

During Year 9, the COS submitted for publication the following stormwater pollution prevention articles within the Santa Ynez Valley News: "Check Your Drainage", "How to Recognize and Report Illicit Discharges" and "Pollution Prevention Tips for Pet Owners and Animal Care and Handling Facilities".

3.1.1.5.2 Direct Mailers

During Year 9 the COS did not have any direct mailers but rather focused on development of new Pet Owner and Animal Care & Handling Facilities Guide to BMPs for distribution via the Santa Barbara Animal Services as noted in Section 3.1.1.4.2.

3.1.1.5.3 Tip of the Month

The COS Stormwater and Water Conservation webpages contain Tip of the Month (TOM) that is published annually and can be downloaded. The Stormwater TOM contain nutrient related Tips such as:

> April: Using less-toxic products at home to help reduce pesticide pollution in your community. Look for Eco-Friendly tags on the product shelves of nurseries and hardware stores to help you identify less-toxic alternatives. Visit the Our Water Our World (OWOW) website or a local participating business in Solvang (Valley Hardware) or in Buellton (Farm Supply and Windmill Nursery) where you can find a brochure display with information about less-toxic product alternatives to use on specific garden pests.

October: Pet waste can be a significant source of fecal coliform bacteria in urban watersheds. We need the help of pet owners to reduce bacteria contamination in our community. Let's Close the Poop Loop (CTPL) by continuing to pick up after our dogs and toss the waste in the trash. Visit your City's Stormwater Management webpage (Buellton or Solvang) and the Close the Poop Loop website to find out the Truth About Dog Poop.

The COS also worked with the Solvang Chamber of Commerce to re-establishing the publishing of the Stormwater and Water Conservation TOM within their E-Newsletter at least one time per month. Buellton Chamber of Commerce continues to publish the Stormwater and/or Water Conservation TOM within their monthly E-Newsletters.

3.1.1.6 Community Based Social Marketing (CBSM) Campaign

3.1.1.6.1 Our Water Our World (OWOW) Campaign

During Year 9, the COS continued implementing the Community Based Social Marketing (CBSM) OWOW Campaign and maintained the display racks within Valley Hardware which provide customers with fact sheets on specific pests. The campaign uses a point-of-purchase strategy to encourage stores to carry less-toxic products, and to educate staff and customers on how to choose and use eco-friendly pesticide products. The program provides current information on products and Integrated Pest Management techniques through training of store staff, and a series of fact sheets for the general public. The reduction of pesticide uses and the use of less-toxic products around the home can lead to a reduction of pollutants in run-off and local waterways as well as a healthier environment for the public.

The COS also conducted a review of OWOW's New 2020 Less-Toxic Product List with assistance of Valley Hardware staff, The review resulted in an update to the store's OWOW Product List and the installation of shelf-talkers for > 50 less-toxic products newly identified. The number of education and outreach materials distributed at the Valley Hardware included: 214 Fact Sheets - 26 Less Toxic Products, 6 10 Most Wanted, 32 Ants (30 English and 2 Spanish), 15 Aphids, 7 Cockroaches, 11 Flees, 17 Healthy Gardens, 14 Lawn, 8 Mosquitos, 2 Pesticides, 3 HHW Facilities SBC, 26 Rats & Mice (25 English and 1 Spanish), 16 Roses, 8 Snails & Slugs, 8 Spiders, 10 Weeds, 5 Yellowjackets which was a 32% increase from the previous reporting year

In Year 10, the COS will continue to implement the CBSM OWOW Campaign with work with OWOW Partner stores to encourage them to take a more active role in identifying Eco-Friendly Products at the time of purchase; and to engage the City when Eco-Friendly Products Shelf-Talkers are needed for new products or to replace damaged/missing Shelf-Talkers. In addition, Santa Barbara County's OWOW Partner Stores will be visited by Plant Harmony and will receive training during the site visit.

Plant Harmony will also evaluate the location and needs of the OWOW materials, print Shelf-Talkers as needed and install a laminated QR Code Poster on the display rack. The new QR Code Poster was created to allow for digital access to the fact sheets for pesticides and will be able to track which fact sheets that were viewed in the OWOW partner stores throughout California on a monthly basis.

3.1.1.6.2 Pet Waste Campaign

The COS continues to promote the CTPL Pet Waste Campaign on the City's Stormwater Management webpage and through distribution of CTPL Dog Dispensers for Pet Waste and Stormwater Bookmarks at events and City Hall as well as through BMP Guides (Mobile Pet Groomer & Stylist, Pet Owners) and CTPL Postcards. The City will continue to promote the CTPL campaign through information that is posted at the SYVBG Information Kiosk Display Board and at the Solvang Public Library's Stormwater Display Board; and offer free CTPL Dog Dispensers for Pet Waste at City Hall, and at designated events. During Year 9, the City restocked 35 CTPL Dog Dispensers for Pet Waste at City Hall and 43 CTPL Dog Dispensers for Pet Waste along with 23 CTPL Postcards were distributed at the Buellton BBQ Bonanza

3.1.1.7 IDDE Training

There were 24 City Staff (9 new and 14 existing), 1 Contract Staff that were provided IDDE Training. All new City Staff and Interns were provided a Quiz following the initial training. All existing City Staff were provided a Quiz that was used to access trained staff's knowledge in the identification of an illicit discharge, proper reporting and response to the illicit discharge or illegal connection. Based on the completed quizzes received, the annual assessment of exiting City Staff demonstrates an increase in stormwater general awareness amongst staff as indicated by the average score of 98.5% correct which is a 4.5% increase from the previous year of 94%. As a result, 5 of the 8 possible spills and/or illicit discharges reported were from City Staff; and the other 2 were from an external agency and/or public notification.

3.1.2 Public Involvement and Participation (CASQA Outcome Level 2-3)

3.1.2.1 Program Survey

During Year 9, the City continued to maintain an on-line Stormwater Management Program survey to assess the public's knowledge on their Stormwater Management Program (SWMP). Based on the lack of participation in the on-line survey received [Year 2 (10 Responses), Year 3 (6 Responses), Year 4 (2 Responses), Year 5 (0 Responses), Year 6 (0 Response), Year 7 0 Response), Year 8 (0 Responses) and Year 9 (1 Response)], the COS will continue to implement the alternative approach of promoting the on-line survey through direct interactions at an event and will continue to engage the residents and business through direct mailers to take the on-line survey.

Although the COS's stormwater website on-line survey results showed a decline for Year 4-9, the City altered its approach of promoting the on-line survey through direct interactions at an event that resulted in an increase total participation for Year 4 (22 Responses), Year 5 (11 Responses) and Year 6 (14 Responses) , Year 7 (10 Responses COB and 10 Responses COS) Year 8 (No Events due to COVID-19 Outbreak) and Year 9 (16 Responses). In Year 10, the COS will continue to promote taking the stormwater survey on the City's website and through direct mailers such as the City's water bill insert.

3.1.2.2 Event Participation

The public did participate and visit the stormwater display booth at both the Buellton BBQ Bonanza and the State of the City event. The number of visitors and surveys completed were as follows: Buellton BBQ Bonanza (100 Visitors, 16 Surveys) and State of the City (5 Visitors, 0 Surveys). In Year 10, COS will also work together with Buellton to develop a new joint stormwater survey for the next Buellton BBQ Bonanza to promote and assess our respective stormwater programs.

3.1.2.3 Interested Parties Sign-up

The COS did not have any interested Parties Sign-up at an event or through the City's Stormwater Management webpage but will continue to promote and encourage the public sign-up on-line and at events.

3.1.3 Illicit Discharge Detection and Elimination (CASQA Outcome Level 4)

3.1.3.1 Legal Authority

The COS continued to implement its IDDE Program through SMC Title 14 Stormwater Management also known as the Stormwater Management Ordinance and the COS Stormwater Program Management Certification Statement which provides the COS full legal authority to implement and enforce each of the NPDES Phase II MS4 General Permit requirements.

3.1.3.2 IDDE Procedures

The COS continues to implement a Spill Response Plan which provides guidance to City Staff responding to a complaint or notice of a spill, illicit discharge, or illegal connection; and investigating to locate and identify the source of a non-stormwater discharge.

3.1.3.3 IDDE Site Investigations/Inspections/Enforcement

There were 2 out of 8 site investigations/complaints associated with potential or confirmed Nutrient related discharges during Year 9. As a result of these 2 nutrient related investigations/complaints, the COS issued 2 verbal warnings, 1 stormwater outreach), 1 written notices with both incidents were resolved/closed through the IDDE Program. The COS will continue to conduct stormwater education and outreach efforts whenever possible through direct integrations or through direct mail/media campaign.

3.1.4 Pollution Prevention and Good Housekeeping (CASQA Outcome Level 2-4)

3.1.4.1 Fats, Oil and Grease (FOG) Inspections

The COS's FOG Program continues to be managed by the Wastewater (WW) Division. The WW Division provides FOG control material to new FSE and existing businesses experiencing FOG problems, surveys are not part of their education and outreach program.

The COS has a low incident of FOG related SSO in the City's commercial services areas. From

a collection system perspective, the FOG-control program is achieving the FOG-control's number one goal of preventing main line blockage and spills. While additional data collection related to FOG-control is not discouraged it is also not a top priority for the collection system staff.

In Year 10, The COS will also continue to promote the on-line Solvang Restaurant Survey via the City's website despite to have a lack of participation and will promote the survey through the City's Water Bill Insert.

3.1.4.2 Green Waste Management

The COS continues to contract with a local waste hauler for management of green waste and coordinates/promotes green waste recycling in the community through the waste hauler.

3.1.4.3 Pet Waste Management

The COS continues to maintain 14 Mutt Mitt Stations at the following locations to help eliminate pet waste from entering our local waterways: 4 Hans Christian Andersen Park, 3 Sunny Fields Park, 2 Solvang Park, 1 Veterans Memorial Building, 2 Skytt Mesa residential area, 1 Parking Lot 4 and 1 Creekside residential area (open space). The COS Mutt Mitt Program purchased approximately 48,000 bags during Year 9 for the Bi-weekly Maintenance and refilling the Mutt Mitt Stations.

3.1.4.4 Pollution Prevention and Good Housekeeping Training

The COS continues to provide Biennial Training as described within the Pollution Prevention and Good Housekeeping (CASQA Outcome Level 2-4) Section to ensure City Staff are incorporating pollution prevention/good housekeeping techniques into Permittee Operations.

During Year 9, the Maintenance Staff was scheduled to take the pollution prevention and good housekeeping training on June 29, 2022, but the refresher training had to be rescheduled; and it was completed on July 6, 2022.

3.1.5 Water Quality Monitoring (CASQA Outcome Level 5)

The COS continues to participate in the Santa Barbara County Public Works Department's regional water quality monitoring program. The draft Urban Storm Water Monitoring Plan (titled Receiving Water Monitoring Plan) FY 2015-2018 was submitted to Region 3 Water Board on December 29, 2014. This plan included a regional monitoring approach for Cities of Buellton, Solvang, Carpinteria, Goleta and the County of Santa Barbara. The Quality Assurance Project Plan along with the updated Urban Storm Water Monitoring Plan, revised to address comments from the CCRWQCB was submitted on October 13, 2015, through the SMARTS Database. On March 4, 2016, Santa Barbara County Project Clean Water received Executive Officer Approval for the revised Urban Stormwater Monitoring Plan (USWMP) and the Quality Assurance Plan (QAPP). Monitoring was initiated during Year 3 and results was reported as part of the Year 3 and subsequent Annual Reports.

The results of the USWMP provided a land use-based pollutant load prioritization and reduction model (LPRM) that was used to calculate wet weather loads produced in the monitoring area, prioritize catchments for BMP placement, and evaluate the performance of existing and future

BMPs. The monitoring data collected in Year 3 through the activities described in this Plan was used to inform the model, by providing site-specific land use pollutant concentration data. As described within the USWMP, the monitoring outfalls will be selected based on their drainage areas consisting of a more or less homogenous land use category. The first year of wet weather urban runoff was initiated in Year 3.

During Year 3, four storms were monitored at a total of 6 sites representing different land use types. Stormwater run-off was analyzed from 8 to 10 storms and the data was used to revise the event mean concentrations (EMCs) of the model to reflect local runoff concentrations in the modeling results that were reported in the regional 303(d) Monitoring Program FY 2015-2016.

The CCRWQCB issued Technical Report Order 13267 on June 13, 2016, that requires the submission of the following reports that document progress on key activities relating to completing spatially based stormwater volume and pollutant loading estimates;

- Report #1: Catchment Delineation and Relevant Attributes that support catchment scale stormwater volume and pollutant loading analysis (Due Date: August 12, 2016);
- Report #2: BMP Inventory for all Centralized and Decentralized BMPs within the City; Stormwater Volume and Pollutant Loading-Unmitigated Condition and Catchment Ranking-Unmitigated Condition for all catchments within the City (Due Date June 30, 2017);
- Report #3: BMP Assessment for all BMPs using an effective approach for assessing structural BMP performance, estimate stormwater volume and pollutant load reduction based on the intended BMP function and current BMP condition based on the BMPs ability to function relative to intended design (Due Date: June 30, 2018; Revised Due Date: October 15, 2018); and
- Report #4: Stormwater Program Modifications Fifth Year Report (Due Date: October 15, 2018).

On November 10, 2016, the CCRWQCB provided comments on how to refine the model approach to meet specific requirement listed in Technical Report Order 13267. The CCRWQCB approved the revised LPRM on July 18, 2017, which included the ability to determine the percent capture of the BMPs implemented based on the standard design attributes. The BMPs inventoried along with the results of the BMP Field Assessment will be uploaded to the LPRM and the new modeling results will be reported in the Technical Report Order 13267 Report #3.

The COS submitted the required Technical Order Reports #1-4 and continues to participate in the regional water quality monitoring program. The Cities will also continue to conduct annual Condition Assessment Observations for each BMP Inventoried in accordance with the Attachment B - BMP Condition Assessment Guidance to the LPR Model Technical Report.

Although water quality monitoring has continued since 2016, the COS sent a Notification Letter to the Central Coast RWQCB on February 4, 2021, regarding the need for temporary adjustment to their Stormwater Program due to COVID-19 directives and related to safety incident involving a sampler. The COS and partner agencies considered these concerns along with the risk involved throughout the sampling procedure to make the decision to postpone any further sampling under the 303(d) sampling program until next season. In lieu of sampling that would have been conducted during Year 8, the COS committed the equivalent amount of funds approximately $1,166* to cleanup/abatement of sediment accumulation impacting Outfall 20 and 21. Following the submittal of the notification letter, the COS allocated additional funds to cleanup/abatement of sediment accumulation impacting Outfall 19.

Note: * = Correction. The cost of Sampling 3 Events is approximately $2,300/year (total~7,000 spilt amongst partners with County taking 2 portions). The Amount of Equivalent Funds for COS to allocate toward cleanup/abatement is $1,166/year.

Although contracts were executed on May 6, 2021, at a cost of $3,900 for Outfall 20 and 21; and $3,700 for Outfall 19 for a total of $7,600 which exceeded original allocated funds, the work was scheduled in July due to the additional budgetary constraints. The cleanup/abatement work for Outfall 19 was completed by July 16, 2021, with the removal of 1 cubic yard of sediment; and has a tentative date of October 30, 2021, date for needed repair of outfall pipe.

During Year 9, the cleanup/abatement work for Outfall 20 and 21 was completed on August 25, 2021, with the estimated removal of 5 cubic yards of sediment. The Outfall 19 pipe repair was completed on November 19, 2021. In addition, the COS was able to conduct sampling at the low residential site location during the October 25, 2021, rain event. Based on review of 3 years' worth of data, it was determined that the low density residential site in Solvang would not need to be sampled as part of the 303(d) sampling program during the December 13, 2021, storm event due to having sufficient data for this land use type. As a member of the regional monitoring program, COS will be working with the Santa Barbara County Project Clean Water and monitoring partners to determine a new multi-family or high density residential sampling location in order to develop a fuller data set for the LPR model in Year 10.

3.2 SEDIMENTATION / SILTATION (Total Suspended Solids)

3.2.1 Education and Outreach (CASQA Outcome Level 2-3)

3.2.1.1 Brochure Distribution

The number of education and outreach materials distributed through stormwater brochure displays at the City facilities (City Hall, Planning Department and Parks and Recreation) related to Sediment include: 3 Construction Industry's Guide to BMPs and 4 Prevent Soil Erosion on Your Property – A Homeowner's Guide to Erosion Control.

The COS continues to issue the Construction Industry's Guide to BMPs during interactions with applicants that visit the Planning Department. In Year 10, the COS will continue to distribute educational materials to construction site operators during initial interactions in the field.

3.2.1.2 Website File Views/Hits

Note: The Website File Views/Hits/Downloads data reported below is from the period July 1, 2021 - December 31, 2021. The City's Civic Plus platform was changed on January 1, 2022, resulting in data gaps for the File Views/Hits/Downloads counts. The City will be developing a new google analytic report to obtain the data from January 1, 2022, to present and will update the PEAIP Annual Report FY 2021-2022 when the data becomes available.

The COS's website received 256 File Views/Hits/Downloads on the following Sediment related BMP Guides/Posters/Brochures: 126 Construction Industry's Guide to BMPs (64 English and 62

Spanish), 65 Prevent Soil Erosion on Your Property – A Homeowner's Guide to Erosion Control, 65 EPA's Stormwater and the Construction Industry Poster.

The COS also provides weblinks to additional resources on the City's website to the Santa Barbara County Project Clean Water and California Stormwater Quality Association.

3.2.1.3 Construction Outreach

The COS maintained connections to construction contractors through inspections which occur prior to land disturbance (prior to rainy season) to ensure BMPs have been installed and at a minimum monthly during active construction and following active construction to ensure the construction contractors are informed of proper erosion and sediment control measures. On July 28, 2021, the City forward a copy of the Monterey Regional Stormwater Management Program's (MRSWMP) Free Virtual Post-Construction Requirements Workshop to be held on August 12, 2021, to 36 developers and project design teams that are known to work within the City of Solvang. The MRSWMP used Santa Barbara County's Stormwater Technical Guide as a template, so it was a good opportunity to review similar sections of the guide.

In Year 10, the COS will continue to forward training/workshop information to construction site operators when opportunities become available.

3.2.1.4 Permittee Staff Training

There was 1 Contract Staff was provided Permittee Staff Training which covered topics such as: construction stormwater awareness, stormwater outreach materials (Construction Industry's Guide to BMP and Stormwater and the Construction Industry Poster), Construction Site Inventory and PCR Tracking Log, Erosion and Sediment Control Review Plan Checklist, Stormwater Control Plan Review Checklist, Construction Site Stormwater Compliance Inspection Checklist, the Post-Construction Resolution and the Santa Barbara County Stormwater Technical Guide.

3.2.2 Illicit Discharge Detection and Elimination (CASQA Outcome Level 4)

3.2.2.1 Legal Authority

The COS continued to implement its IDDE Program through SMC Title 14 Stormwater Management also known as the Stormwater Management Ordinance and the COS Stormwater Program Management Certification Statement which provides the COS full legal authority to implement and enforce each of the NPDES Phase II MS4 General Permit requirements.

3.2.2.2 IDDE Procedures

The COS continues to implement a Spill Response Plan which provides guidance to City Staff responding to a complaint or notice of a spill, illicit discharge, or illegal connection; and investigating to locate and identify the source of a non-stormwater discharge.

3.2.3.3 IDDE Site Investigations/Inspections/Enforcement

There were no site investigations associated with sediment related discharges from construction projects in Year 9. As part of the Stormwater Management Program, the COS continues to work with construction contractors, residents, and businesses to resolve any corrective actions and/or discrepancies found during the inspection and through receipt of a notification or complaint.

3.2.3 Construction Site Stormwater Runoff Control (Outcome Level 2-3)

3.2.3.1 Permit Issuance/Plan Approvals

During Year 9, the COS issued 1 new construction site grading permit for a project that required an E&SCP and a Stormwater Control Plan (SWCP) but not a Stormwater Pollution Prevention Plan (SWPPP). In total, the COS approved 1 Erosion & Sediment Control Plan and 3 Stormwater Control Plans.

3.2.3.2 Construction Site Inspections/Enforcement

The COS inspected 5 construction sites monthly during Active Construction. One (1) of the 5 construction sites transitioned from an active construction inspection to a following active construction inspection and will continued to be inspected monthly until such time the project is deemed closed. The project status of the 7 construction sites are as follows: On-Hold (Pending-No Soil Disturbance)-1, Active Construction-4, and Closed-2. In total, the COS conducted 2 Prior to Land Disturbance (during rainy season) Inspections, 46 Active Construction Inspections, 6 Following Active Construction Inspection.

In Year 10, the COS will continue to monitor the erosion and sediment control measures at each construction site and continue to work with construction contractors to resolve any corrective actions and/or discrepancies found during the inspection. The City also continue to send NOAA Hourly Weather updates when rainfall estimates are 0.5 inches or greater to encourage inspection of the construction sites and install/repair/replace erosion and sediment control BMPs or other temporary BMPs as needed to secure the site prior to rain.

3.2.4 Post-Construction Site Stormwater Runoff Control (CASQA Outcome Level 2-3)

During Year 9, six (6) out of 7 construction sites received discretionary/ministerial approval after March 6, 2014. Five (5) of the 7 construction projects required to develop a SWCP to comply with PCR Measures;1 construction project approval predates the PCRs; and 1 construction project is considered unregulated per PCRs section B.1.a as it was too small (less than 2,500 SF) . All 7 construction sites have or will be implementing LID measures.

3.2.5 Pollution Prevention and Good Housekeeping (CASQA Outcome Level 2-3)

3.2.5.1 Street Sweeping

During Year 9, the COS Street Sweeping Maintenance Contractor continued to conduct Street Sweeping Activities on all municipal streets (residential and arterial city streets) bi-monthly, downtown village area once per month, alleys downtown every month, and Hans Christian Andersen Park and Sunny Fields Park quarterly. By conducting street sweeping activities on a

regular basis, the COS minimizes sediment and other pollutants from the entering the storm drain conveyance system.

3.2.5.2 Storm Drain Assessing & Prioritizing Maintenance Activities

The COS continued the implementation of the Storm Drain System SOP for Assessing & Prioritizing Maintenance Activities to comply with all required program elements of the NPDES Phase II MS4 General Permit. The COS has over 360 drainage structures (including approximately 209 catch basins, 10 drop inlets, 29 inlets, 22 outfalls, 1 detention basin, etc.) that are routinely inspected and managed by City staff**.** It is cost prohibitive to inspect every linear foot of the City's large storm drain system on a short-term schedule. For this reason, the City uses a planning approach to focus inspection of approximately 75 catch basin, inlet, drain structures deemed high priority for inspection based on the geographical location within a priority land use area. The City used the GIS database to develop the method for prioritizing and assessing the inventory and will continue with the assessment method as outlined within the Storm Drain System SOP.

During Year 9, the COS was able to perform any storm drain inspections of the high priority catch basins but was not able to remove trash and debris from all of the high priority facilities that were identified due to staffing constraints as result of reduced manpower, internal reorganization, staffing level reductions and limited availabity of properly trained staff that was confined staff training or could operate the vactor truck. The City was able to clean high priority areas that did not require vactor truck or confined space entry restrictions.

The City was able to complete the cleanup/abatement work for Outfall 20 and 21 with the estimated removal of 5 cubic yards of sediment; and the Outfall 19 pipe repair. In August/September of Year 10, the COS is planning to resume inspections and maintenance all catch basin, inlet and drainage structures deemed a high priority within the priority land use area.

3.2.5.3 Hotspot Inspections

The COS does not have any "Confirmed" or "Severe" Hotspot" that required quarterly inspections. During Year 9, the COS performed annual inspections on 2 locations that are deemed "Potential" Hotspots – (1) Municipal Annex Building/Maintenance Shop; and (2) Corporate Yard. All observations from facility assessments were recorded on Hotspot Site Investigation Forms that were completed in accordance with the Center for Watershed Protection's Restoration Manual Series guide on Urban Subwatershed and Site Reconnaissance: A User's Manual. Observations included any potential and observed pollution sources from vehicle operations, outdoor materials, waste management, and physical plant (including building maintenance, parking lots, downspouts, onsite construction activities), turf/landscaping areas and storm water infrastructure at these facilities.

3.2.6 Water Quality Monitoring (CASQA Outcome Level 5)

The COS continues to participate in the Santa Barbara County Public Works Department's regional water quality monitoring program. The draft Urban Storm Water Monitoring Plan (titled Receiving Water Monitoring Plan) FY 2015-2018 was submitted to Region 3 Water Board on December 29, 2014. This plan included a regional monitoring approach for Cities of Buellton, Solvang, Carpinteria, Goleta and the County of Santa Barbara. The Quality Assurance Project

Plan along with the updated Urban Storm Water Monitoring Plan, revised to address comments from the CCRWQCB was submitted on October 13, 2015, through the SMARTS Database. On March 4, 2016, Santa Barbara County Project Clean Water received Executive Officer Approval for the revised Urban Stormwater Monitoring Plan (USWMP) and the Quality Assurance Plan (QAPP). Monitoring was initiated during Year 3 and results was reported as part of the Year 3 and subsequent Annual Reports.

The results of the USWMP provided a land use-based prioritization and reduction (LPRM) model that was used to calculate wet weather loads produced in the monitoring area, prioritize catchments for BMP placement, and evaluate the performance of existing and future BMPs. The Plan was used to inform the model, by providing site-specific land use pollutant concentration data. As described within the USWMP, the monitoring outfalls were selected based on their drainage areas consisting of a more or less homogenous land use category. The first year of wet weather urban runoff was initiated in Year 3.

During Year 3, four storms were monitored at a total of 6 sites representing different land use types. Stormwater run-off was analyzed from 8 to 10 storms and the data was used to revise the event mean concentrations (EMCs) of the model to reflect local runoff concentrations in the modeling results that were reported in the regional 303(d) Monitoring Program Results FY 2015-2016.

The CCRWQCB issued Technical Report Order 13267 on June 13, 2016, that requires the submission of the following reports that document progress on key activities relating to completing spatially based stormwater volume and pollutant loading estimates;

- Report #1: Catchment Delineation and Relevant Attributes that support catchment scale stormwater volume and pollutant loading analysis (Due Date: August 12, 2016);
- Report #2: BMP Inventory for all Centralized and Decentralized BMPs within the City; Stormwater Volume and Pollutant Loading-Unmitigated Condition and Catchment Ranking-Unmitigated Condition for all catchments within the City (Due Date June 30, 2017);
- Report #3: BMP Assessment for all BMPs using an effective approach for assessing structural BMP performance, estimate stormwater volume and pollutant load reduction based on the intended BMP function and current BMP condition based on the BMPs ability to function relative to intended design (Due Date: June 30, 2018; Revised Due Date: October 15, 2018); and
- Report #4: Stormwater Program Modifications Fifth Year Report (Due Date: October 15, 2018).

On November 10, 2016, the CCRWQCB provided comments on how to refine the model approach to meet specific requirement listed in Technical Report Order 13267. The CCRWQCB approved the revised LPRM on July 18, 2017, which included the ability to determine the percent capture of the BMPs implemented based on the standard design attributes. The BMPs inventoried along with the results of the BMP Field Assessment will be uploaded to the LPRM and the new modeling results will be reported along Technical Report Order 13267 Report #3.

The COS submitted the required Technical Order Reports #1-4 and continues to participate in the regional water quality monitoring program. The Cities will also continue to conduct annual Condition Assessment Observations for each BMP Inventoried in accordance with the Attachment B - BMP Condition Assessment Guidance to the LPR Model Technical Report.

Although water quality monitoring has continued since 2016, , the COS sent a Notification Letter to the Central Coast RWQCB on February 4, 2021, regarding the need for temporary adjustment to their Stormwater Program due to COVID-19 directives and related to safety incident involving a sampler. The COS and partner agencies considered these concerns along with the risk involved throughout the sampling procedure to make the decision to postpone any further sampling under the 303(d) sampling program until next season. In lieu of sampling that would have been conducted during Year 8, the COS committed the equivalent amount of funds approximately $1,166* to cleanup/abatement of sediment accumulation impacting Outfall 20 and 21. Following the submittal of the notification letter, the COS allocated additional funds to cleanup/abatement of sediment accumulation impacting Outfall 19.

Note: * = Correction. The cost of Sampling 3 Events is approximately $2,300/year (total~7,000 spilt amongst partners with County taking 2 portions). The Amount of Equivalent Funds for COS to allocate toward cleanup/abatement is $1,166/year.

Although contracts were executed on May 6, 2021, at a cost of $3,900 for Outfall 20 and 21; and $3,700 for Outfall 19 for a total of $7,600 which exceeded original allocated funds, the work was scheduled in July due to the additional budgetary constraints. The cleanup/abatement work for Outfall 19 was completed by July 16, 2021, with the removal of 1 cubic yard of sediment; and has a tentative date of October 30, 2021, for needed repair of outfall pipe.

During Year 9, the cleanup/abatement work for Outfall 20 and 21 was completed on August 25, 2021, with the estimated removal of 5 cubic yards of sediment. The Outfall 19 pipe repair was completed on November 19, 2021. In addition, the COS was able to conduct sampling at the low residential site location during the October 25, 2021, rain event. Based on review of 3 years' worth of data, it was determined that the low density residential site in Solvang would not need to be sampled as part of the 303(d) sampling program during the December 13, 2021, storm event due to having sufficient data for this land use type. As a member of the regional monitoring program, COS will be working with the Santa Barbara County Project Clean Water and monitoring partners to determine a new multi-family or high density residential sampling location in order to develop a fuller data set for the LPR model in Year 10.

4.0 SHORT- AND LONG-TERM PROGRAM EFFECTIVENESS

During Year 9, the COS was determined to maintain its two short term goals: (1) Comply with the NPDES Phase II MS4 General Permit requirements and to fully implement the SOPs developed during this permit term to minimize the identified high- and medium-priority POCs from entering the Storm Drain System; and (2) Continue its education and outreach efforts and to collect and track program data that will be used to modify and improve the City's Storm Water Management Program.

The COS maintain its long-term goal of the effectiveness assessment program to reduce pollutants from the MS4 to the maximum extent practicable. By applying BMPs that are effective in reducing or eliminating the discharge of pollutants to the waters of the U.S. Through the emphasis of pollutant reduction and source control BMPs to prevent pollutants from entering storm water run-off. The COS recognizes that this is a dynamic process and may require changes over time as we gain experience and as new science and technologies become available.

APPENDIX A - Table 5. Nutrients Questions, Data Assessment Methods, and Data Collection Methods, by Program Element

Management Questions	Data Assessment Methods	Data Collection Methods
Education and Outreach [Outcome Level 2-3]		
• Has the City developed education and outreach materials with information regarding proper use and disposal of fertilizers? • Are education and outreach materials available at City designated facilities, City sponsored events or on the City website? • Does the City have a targeted pet waste/livestock educational program? • Does the County support education for landscape contractors to reduce fertilizer? • Are education and outreach materials provided during Fats, Oil and Grease (FOG) and/or Industrial Wastewater Discharge (IWD) Inspections?	Descriptive Statistics • Number of education and outreach events participated in and estimated of number of education and outreach materials distributed at City designated facilities, City's sponsored event's Stormwater Display Booth or thru City website • Number of education and outreach materials provided during FOG and/or IWD Inspections • Number of target audience mailers to landscape contractors, residents along the river/creek with livestock; and/or homebrew beer, wine and distillery waste etc.	Internal Tracking by Stormwater Program • Brochure Distribution at City designated facilities, City sponsored events or thru City website • City SWMP File Views/Hits (English and/or Spanish) • Number of Visitors to the City's sponsored event's Stormwater Display Booth • Number of target audience mailers to residents along the river/creek with livestock; landscape contractors; homebrew beer, wine and distillery waste Review of External Data Sources • Brochure Distribution during FOG and/or IWD Program Inspection
Public Involvement and Participation [Outcome Level 2-3]		
• Has the City developed opportunities for citizen participation at City's sponsored event's Stormwater Display Booth? • Has the City developed opportunities for citizen participation on-line thru the City's Stormwater Webpage or Survey Monkey?	Qualitative Assessment • Confirmation of Stormwater Pollution Prevention Interested Parties Sign-Up List at City's sponsored event's Stormwater Display Booth Descriptive Statistics • Number of Visitors and Stormwater Quiz's Completed via City's sponsored event's Stormwater Display Booth • Number of on-line Storm Water Management Program Survey's completed and interested parties sign-up inquiry via the City's Stormwater Webpage or Survey Monkey	Interviews/Surveys Internal Tracking by Stormwater Program • Number of Visitors and Stormwater Quiz's Completed via City's sponsored event's Stormwater Display Booth • Number of Stormwater Survey's Completed and Interested Parties Sign-up Inquiry via City Stormwater Website or Survey Monkey Review of External Data Sources • Number of Stormwater Survey's Completed and Interested Parties Sign-up Inquiry via or Survey Monkey
Illicit Discharge Detection and Elimination [Outcome Level 4]		
• Has the City developed IDDE procedures? • Are FOG and IWD Program participants operating in a manner that prevents nutrients from leaving the site? • Are green waste and pet waste collection programs in place? • Does City have legal authority to address non-storm water discharges?	Qualitative Assessment • Confirmation of local waste hauler (green waste) and Christmas Treecycle Program • Confirmation of City Mutt Mitt Stations Bi-weekly Maintenance Program • Confirmation of on-going City Staff IDDE Training • Confirmation of establish City Municipal Code and Certification of Legal Authority Descriptive Statistics • Number of IDDE Investigations and/or Inspections and follow-up at facilities with deficiencies • Number of FOG and/or IWD Inspection Reports and/or Violations	Internal Tracking by Stormwater Program • Stormwater Incident Report Form • Mutt Mitt Station Bi-weekly Maintenance Site Investigations/Inspections • City IDDE Site Investigations and/or Inspections with direct observation of an IDDE Review of External Data Sources • FOG and/or IWD Inspection Reports and/or Violations • Local Hauler Green Waste Website/Mailers
Pollution Prevention and Good Housekeeping [Outcome Level 2-4]		
• Is City effectively implementing BMPs (e.g. Mutt Mitt Stations) that target nutrient reduction in waterways? • Are FOG and/or IWD Program participants implementing a Pollutant Prevention and Good Housekeeping practices? • Are FOG and/or IWD Program participants aware of Cities SWMP requirements? • Are FOG and/or IWD Program participants aware of SWMP requirements for their business activity? • Do the FOG and IWD Program participants believe they are in compliance with the City's SW Program?	Qualitative Assessment • Confirmation of on-going City Staff Training Descriptive Statistics • Number of FOG and/or IWD Inspection Reports	Interviews/Surveying Review of External Data Sources • FOG and/or IWD Inspection Reports • FOG and/or IWD Inspection Report Stormwater Questionnaires
Water Quality Monitoring [Outcome Level 5]		
• Is the urban discharge a significant source of nutrients to receiving water?	• Comparing modeled data to established targets • Use local data acquired through regional 303(d) monitoring program	• Monitoring and sampling results • Pollutant load model results

APPENDIX B - Table 6. Sedimentation/Siltation (Total Suspended Solids) Questions, Data Assessment Methods, and Data Collection Methods, by Program Element

Management Questions	Data Assessment Methods	Data Collection Methods
Education and Outreach [Outcome Level 2-3]		
• Are City Grading Inspectors trained to review and inspect erosion and sediment control measures? • Are there educational opportunities at county sponsored events? • Are construction contractors informed of proper erosion and sediment control measures?	Qualitative Assessment • Confirmation of on-going City Grading Staff Training • Descriptive Statistics Number of new City Grading Staff Trained • Number of outreach events participated in and outreach materials distributed to construction contractors • Number of connections to construction contractors through grading permits and inspections	Internal tracking by stormwater program • Internal Tracking by City Engineering Department and/or Division Training • Number of Outreach Event Participation and Brochure Distribution via email • Number of connections with Construction Contractors through grading permits and inspections
Illicit Discharge Detection and Elimination [Outcome Level 4]		
• Does City implement field investigation program for complaints and discoveries of illicit discharges? • Does City have legal authority to address non-storm water discharges?	Qualitative Assessment • Confirmation that the City has IDDE Procedures (Spill Response Plan) • Confirmation of on-going City Staff IDDE Training • Confirmations of establish City Municipal Code and Certification of Legal Authority Descriptive Statistics • Number of IDDE Investigations and/or Inspections and follow-up at facilities with deficiencies	Internal tracking by stormwater program • Stormwater Incident Report Form Site Investigations/Inspections • City IDDE Site Investigations and/or Inspections with direct observation of an IDDE
Construction Site Stormwater Runoff Control [Outcome Level 2-3]		
• Are construction sites being managed in compliance with City Municipal Code? • Are Stormwater Pollution Prevention Plans (SWPPP), Erosion and Sediment Control Plans (E&SCP) and/or Stormwater Control Plans (SWCP) reviewed prior to permit issuance? • Are any sites a potential source of significant sediment discharge?	Descriptive Statistics • Number of Construction Sites issued Grading Permits • Number of SWPPP, E&SCP and SWCP reviewed prior to issuance of permit • Number of Construction Sites designated as a Water Quality Threat • Number Construction Site Inspections • Number of Verbal Warnings, Stop Work Order, Letter to Correct, Written Notice of Violation, Code Violations, Construction Bond, Penalties, Enforcement Actions (Administrative, Civil or Criminal Actions)	Internal tracking by stormwater program • SWPPP, E&SCP and SWCP • Construction Site Inspections • Construction Sites with Water Quality Threat • Verbal Warnings, Stop Work Order, Letter to Correct, Written Notice of Violation, Code Violations, Construction Bond, Penalties, Enforcement Actions (Administrative, Civil or Criminal Actions)
Post-Construction Site Stormwater Runoff Control [Outcome Level 2-3]		
• Is development being approved in compliance with Post-Construction Requirements (PCRs) and Low Impact Development (LID) Measures to promote runoff volume and rates?	Descriptive Statistics • Number of projects reviewed in compliance with PCRs and LID measures	Internal tracking by stormwater program • PCR and LID Projects
Pollution Prevention and Good Housekeeping [Outcome Level 2-3]		
• Are City facilities managed to reduce erosion and promote sediment retention?	Descriptive Statistics • Number of Pollution Prevention BMPs implemented at City owned and/or operated facilities	Internal tracking by stormwater program • Pollution Prevention and Good Housekeeping BMPs implemented at City owned and/or operated facilities
Water Quality Monitoring [Outcome Level 5]		
• Is the urban discharge a significant source of sediments to receiving water?	• Compare modeled data to established targets • Use local data acquired through regional 303(d) monitoring program	• Monitoring and sampling results • Pollutant load model results

City of Buellton

Stormwater Program Effectiveness Assessment and Improvement Plan

Annual Summary 2021-2022

October 15, 2022

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TABLE OF CONTENTS

TABLES

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
BMP	Best management practice
CASQA	California Stormwater Quality Association
Central Coast Water Board	Central Coast Regional Water Quality Control Board
CTPL	Close the Poop Loop
CBSM	Community-based social marketing
E&SCP	Erosion and Sediment Control Plan
FOG	Fats, oils, and grease
IDDE	Illicit discharge detection and elimination
IWD	Industrial waste discharge
LPRM	Land use-based prioritization and reduction model
MEP	Maximum extent practical
MS4	Municipal separate storm sewer system
NPDES	National Pollutant Discharge Elimination System
PCR	Post-construction requirement
PEAIP	Program Effectiveness Assessment and Improvement Plan
POC	Pollutant of concern
SOP	Standard operating procedure
SWCP	Storm Water Control Plan
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SYVBG	Santa Ynez Valley Botanic Garden
TMDL	Total Maximum Daily Load
WDR	Waste Discharge Requirement
WPCP	Water Pollution Control Plan
WQO	Water Quality Order
WWTP	Wastewater treatment plant

1.0 INTRODUCTION

This *Program Effectiveness Assessment and Improvement Plan (PEAIP) Annual Summary* evaluates the effectiveness of best management practices (BMPs) implemented in the 2021-2022 reporting year (Year 9) by the City of Buellton (City) to meet the requirements of its *Storm Water Management Plan (SWMP) Guidance Document* (approved in 2014 and modified in reporting Year 5, 2019), and the *Small MS4 General Permit WQ Order 2013-0001-DWQ as amended by Orders WQ 2015-0133-EXEC, WQ 2016-0069-EXEC, WQ 2018-0001-EXEC, and WQ 2018-0007-EXEC* (Small MS4 Permit). The Small SM4 Permit requires the City to implement its *Program Effectiveness Assessment and Improvement Plan* (PEAIP, City of Buellton 2016), which describes how the City will track short- and long-term effectiveness of the Stormwater Program. The PEAIP defines the approach the City will use to adaptively manage the Program to improve its ability to reduce the identified high- and medium-priority pollutants of concern (POCs)—nutrients and sedimentation/siltation (total suspended solids)—thereby achieving the maximum extent practicable (MEP) standard and protecting water quality.

Per the Small MS4 Permit, the PEAIP was developed using the most recent California Stormwater Quality Association's (CASQA's) effectiveness assessment guidance, which is the *Program Effectiveness Assessment and Improvement Plan (PEAIP) Framework* (2015). The City's PEIAP meets the requirements of the Small MS4 Permit. It discusses six Outcome Levels in which the BMPs are intended to achieve. The City's Stormwater Program BMPs primarily achieve Outcome Level 2, *Barriers and Bridges to Action,* and Outcome Level 3, *Target Audience Actions,* and to some extent, Outcome Level 4, *Source Contributions* and Outcome Level 5, *Urban Runoff and MS4 Contributions.* The City documented within the PEAIP management questions for high- and medium-priority POCs and conducted a source assessment for each POC. The data collected was then used to improve the Stormwater Program. Target audiences for each source of high- and medium-priority POC and prioritized BMP for POC were determined based on:

- Total Maximum Daily Loads (TMDLs) proposed by the Central Coast Regional Water Quality Control Board (Central Coast Water Board);
- 2010 *303(d) List of Impaired Waterbodies*;
- Central Coast Water Board's consultation handout *Solvang–Buellton Urban Water Quality Profile* (2014);
- Central Coast Ambient Monitoring Program's Ambient Water Quality Data;
- SWMP Guidance Document's List of POCs;
- Proposed *Urban Storm Water Monitoring Plan 2015-2018* (County of Santa Barbara et al 2015, revised 2016); and
- Best professional judgment and knowledge of local and/or regional water quality issues and common urban pollutants.

The prioritized BMPs reflect Stormwater Program activities to change behaviors of target audiences and result in POC reduction. The prioritized BMPs, listed in Figure 8 of the PEAIP, *Prioritized BMPs Identified for Target Audiences* (see Figure 1), are being implemented as part of Stormwater Program. Applicable data was collected and analyzed for each BMP at the close of Permit Year 8 (July 1, 2020 through June 30, 2021) in order to assess program effectiveness and identify opportunities for improvement. This report summarizes implementation of the City's Stormwater Program for Year 8 and its effectiveness pursuant to the PEAIP (City of Buellton 2016). As stated in the PEAIP, stormwater programs are inherently complex due to the variety of possible pollutant sources (e.g., construction, industrial, commercial, residential, new development, etc.), limited ability to directly control the behaviors of target audiences, extensive geographic coverage of the programs, comingling of flows within the drainage system, and the potential impacts to water quality from non-municipal stormwater sources (e.g., wind-blown materials, groundwater seepage, aerial deposition, etc.). Additionally, the ability to determine whether target audiences have been reached; are understanding and retaining information provided by the Program; and are changing behavior, is very difficult to measure. Therefore, the PEAIP is focused on the Stormwater Program's impact, rather than the strict implementation of the Program to allow the City to gauge whether the Program is achieving the intended outcomes and reaching the target audiences and identify necessary modifications to the Program to make it more effective.

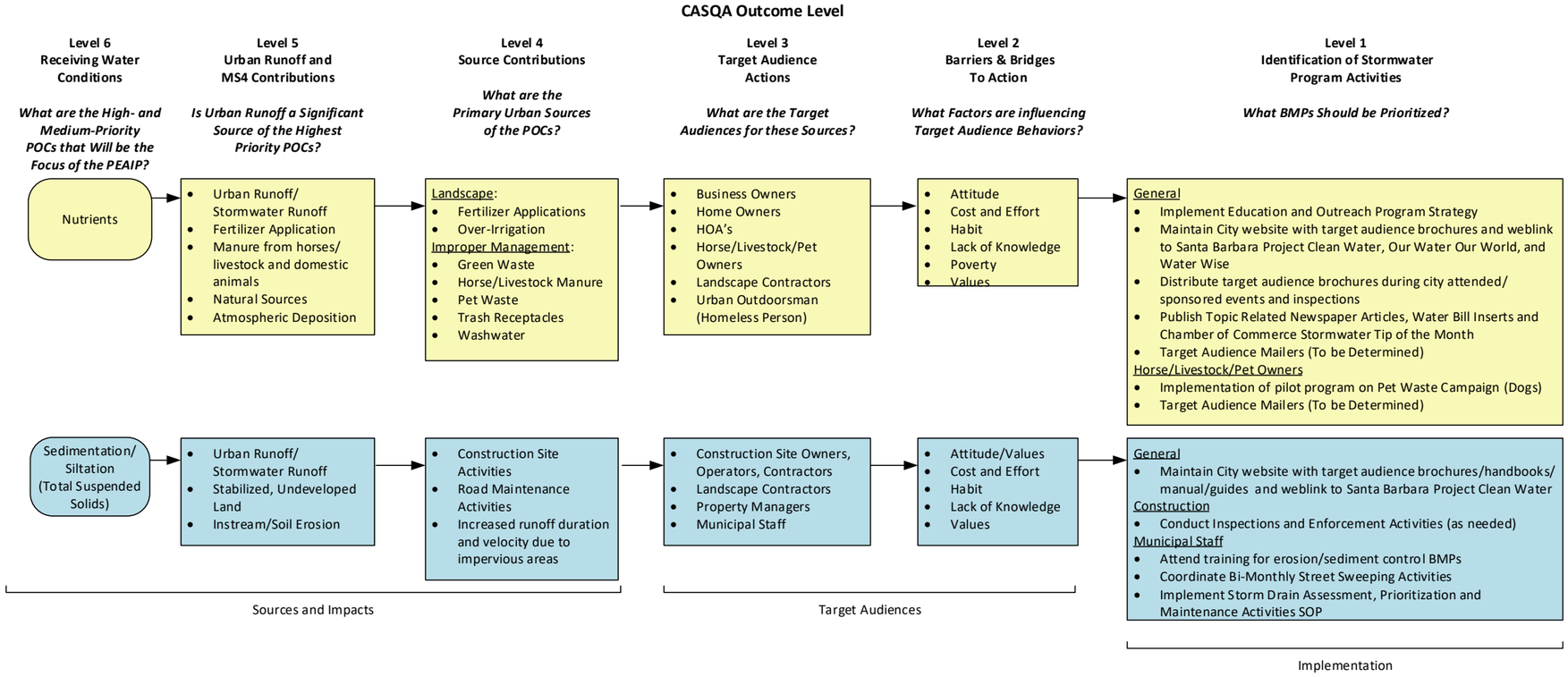

Figure 1. PEIAP Prioritized BMPs Identified for Target Audiences

2.0 PROGRAM ASSESSMENT METHODS

As stated above, the City BMPs are largely intended to achieve Outcome Level 2, *Barriers and Bridges to Action,* and Outcome Level 3, *Target Audience Actions*. Per the PEAIP, Outcome Level 3 focuses on identifying target audiences associated with the primary sources of high- and medium priority POCs, as well as the behavioral patterns of these target audiences, with the goal of assessing behavior change over time. Outcome Level 2 focuses on identifying the *factors* that influence target audience behaviors and using these factors to bring awareness of the need to reduce pollutant-generating activities and implement prioritized BMPs. Level 2 Outcomes are often used to gauge progress in, or to refine approaches for, achieving Level 3 Outcomes. Target audiences are the individuals and populations that a stormwater program is directed to and may include, but are not limited to, municipal employees, contractors, and the general public. Since source reductions can only be achieved by the people responsible for pollutant loadings, a successful program will be one that is able to induce positive behavioral changes in the target audiences.

The City also focuses BMPs to achieve *Urban Runoff and MS4 Contributions* (i.e., CASQA Outcome Level 5) and associated *Source Contributions* (i.e., CASQA Outcome Level 4*)* for high- and medium-priority POCs*.* Level 5 Outcomes provide a direct measure of the City's contributions to downstream receiving waters; thus, it is a good gauge of stormwater program effectiveness over time. It can also be used to inform a better understanding of source contributions pursuant to Outcome Level 4. However, due to the temporal and spatial variability of water quality data, a significant amount of data is needed to establish linkages between pollutants in MS4 discharges and the conditions within the receiving waters. Additionally, the City population is relatively small—approximately 5,000 people—and the City's urbanized footprint comprises a very small proportion of the watershed.

The City participates in a regional 303(d) water quality monitoring program with partner MS4s, including the County of Santa Barbara. The goal of the monitoring program is to "characterize pollutant concentrations and loads from representative MS4 discharge locations within the County" and subsequently refine the pollutant loading information within the land use-based prioritization and reduction model (LPRM). Over time, the calibrated and refined LPRM will be used by the City to assess the impact of BMPs on sub-watersheds; compare pollutant loading between sub-watersheds; and better tailor future BMPs by focusing on areas of potentially higher pollutant load.

This PEAIP is organized by high-and medium-priority POCs—nutrients and sedimentation/siltation—and the assessment was conducted according to the management questions, data collection, and data assessment methods outlined within Table 5 and 6 of the PEAIP (see Tables 1 and 2). The data assessment for each POC consisted primarily of a qualitative assessment and/or uses of descriptive statistics. Data collection methods included internal tracking by the City, review of external data sources, interviews/surveys, and site investigations/inspections.

Table 1. PEIAP Table 5, *Nutrients Questions, Data Assessment Methods, and Data Collection Methods, by Program Element*

Management Questions	Data Assessment Methods	Data Collection Methods
Education and Outreach [Outcome Level 2-3]		
• Has the City developed education and outreach materials with information regarding proper use and disposal of fertilizers? • Are education and outreach materials available at City designated facilities, City sponsored events or on the City website? • Does the City have a targeted pet waste/livestock educational program? • Does the County support education for landscape contractors to reduce fertilizer? • Are education and outreach materials provided during Fats, Oil and Grease (FOG) and/or Industrial Wastewater Discharge (IWD) Inspections?	Descriptive Statistics • Number of education and outreach events participated in and estimated of number of education and outreach materials distributed at City designated facilities, City's sponsored event's Stormwater Display Booth or thru City website • Number of education and outreach materials provided during FOG and/or IWD Inspections • Number of target audience mailers to landscape contractors, residents along the river/creek with livestock; and/or homebrew beer, wine and distillery waste etc.	Internal Tracking by Stormwater Program • Brochure Distribution at City designated facilities, City sponsored events or thru City website • City SWMP File Views/Hits (English and/or Spanish) • Number of Visitors to the City's sponsored event's Stormwater Display Booth • Number of target audience mailers to residents along the river/creek with livestock; landscape contractors; homebrew beer, wine and distillery waste Review of External Data Sources • Brochure Distribution during FOG and/or IWD Program Inspection
Public Involvement and Participation [Outcome Level 2-3]		
• Has the City developed opportunities for citizen participation at City's sponsored event's Stormwater Display Booth? • Has the City developed opportunities for citizen participation on-line thru the City's Stormwater Webpage or Survey Monkey?	Qualitative Assessment • Confirmation of Stormwater Pollution Prevention Interested Parties Sign-Up List at City's sponsored event's Stormwater Display Booth Descriptive Statistics • Number of Visitors and Stormwater Quiz's Completed via City's sponsored event's Stormwater Display Booth • Number of on-line Storm Water Management Program Survey's completed and interested parties' sign-up inquiry via the City's Stormwater Webpage or Survey Monkey	Interviews/Surveys Internal Tracking by Stormwater Program • Number of Visitors and Stormwater Quiz's Completed via City's sponsored event's Stormwater Display Booth • Number of Stormwater Survey's Completed and Interested Parties Sign-up Inquiry via City Stormwater Website or Survey Monkey Review of External Data Sources • Number of Stormwater Survey's Completed and Interested Parties Sign-up Inquiry via or Survey Monkey

Table 1. PEIAP Table 5, *Nutrients Questions, Data Assessment Methods, and Data Collection Methods, by Program Element* (Continued)

Illicit Discharge Detection and Elimination [Outcome Level 4]		
• Has the City developed IDDE procedures? • Are FOG and IWD Program participants operating in a manner that prevents nutrients from leaving the site? • Are green waste and pet waste collection programs in place? • Does City have legal authority to address non-storm water discharges?	Qualitative Assessment • Confirmation of local waste hauler (green waste) and Christmas Treecycle Program • Confirmation of City Mutt Mitt Stations Bi-weekly Maintenance Program • Confirmation of on-going City Staff IDDE Training • Confirmation of establish City Municipal Code and Certification of Legal Authority Descriptive Statistics • Number of IDDE Investigations and/or Inspections and follow-up at facilities with deficiencies • Number of FOG and/or IWD Inspection Reports and/or Violations	Internal Tracking by Stormwater Program • Stormwater Incident Report Form • Mutt Mitt Station Bi-weekly Maintenance Site Investigations/Inspections • City IDDE Site Investigations and/or Inspections with direct observation of an IDDE Review of External Data Sources • FOG and/or IWD Inspection Reports and/or Violations • Local Hauler Green Waste Website/Mailers
Pollution Prevention and Good Housekeeping [Outcome Level 2-4]		
• Is City effectively implementing BMPs (e.g., Mutt Mitt Stations) that target nutrient reduction in waterways? • Are FOG and/or IWD Program participants implementing a Pollutant Prevention and Good Housekeeping practices? • Are FOG and/or IWD Program participants aware of Cities SWMP requirements? • Are FOG and/or IWD Program participants aware of SWMP requirements for their business activity? • Do the FOG and IWD Program participants believe they are in compliance with the City's SW Program?	Qualitative Assessment • Confirmation of on-going City Staff Training Descriptive Statistics • Number of FOG and/or IWD Inspection Reports	Interviews/Surveying Review of External Data Sources • FOG and/or IWD Inspection Reports • FOG and/or IWD Inspection Report Stormwater Questionnaires

Table 1. PEIAP Table 5, *Nutrients Questions, Data Assessment Methods, and Data Collection Methods, by Program Element* (Continued)

Water Quality Monitoring [Outcome Level 5]		
• Is the urban discharge a significant source of nutrients to receiving water?	• Comparing modeled data to established targets • Use local data acquired through regional 303(d) monitoring program	• Monitoring and sampling results • Pollutant load model results

Table 2. PEIEP Table 6, *Sedimentation/Siltation (Total Suspended Solids) Questions, Data Assessment Methods, and Data Collection Methods, by Program Element*

Management Questions	Data Assessment Methods	Data Collection Methods
Education and Outreach [Outcome Level 2-3]		
• Are City Grading Inspectors trained to review and inspect erosion and sediment control measures? • Are there educational opportunities at county sponsored events? • Are construction contractors informed of proper erosion and sediment control measures?	Qualitative Assessment • Confirmation of on-going City Grading Staff Training • Descriptive Statistics Number of new City Grading Staff Trained • Number of outreach events participated in and outreach materials distributed to construction contractors • Number of connections to construction contractors through grading permits and inspections	Internal tracking by stormwater program • Internal Tracking by City Engineering Department and/or Division Training • Number of Outreach Event Participation and Brochure Distribution via email • Number of connections with Construction Contractors through grading permits and inspections

3.0 PROGRAM EFFECTIVENESS ASSESSEMENT FINDINGS

3.1 NUTRIENTS

3.1.1 Education and Outreach (CASQA Outcome Levels 2 & 3)

The City's Education and Outreach Strategy has been designed to reach a large audience within the community. The program's goal is to inform the local community of the impacts of stormwater pollution on the water quality and ecology of local water bodies and the steps the public can take to reduce pollutants in stormwater, as well as how they can become involved in restoration activities. The strategy involves: (1) implementing the regional community-based social marketing (CBSM) campaign, *Close the Poop Loop* (CTPL) targeted at increasing the cleanup and disposal of pet waste to reduce the amount of nutrients, bacteria, and pathogen loading to stormwater; (2) conducting surveys or quizzes to assess knowledge of applicable stormwater issues and solutions; (3) providing informative materials (i.e., printed brochures and flyers, posters in heavily trafficked areas, utility bill inserts, City website and social media pages, and community involvement emails) to target audiences to increase awareness of relevant stormwater issues and BMPs; (4) utilizing public input in developing outreach through event participation; (5) providing water efficient/pesticide and fertilizer application/stormwater brochures within each City office and website; (6) promoting detecting and reporting illicit discharges and illegal connections; (8) providing stormwater pollution prevention educational material to school children; and (9) outreach encouraging reduction of discharges from organized car washes, mobile cleaning, and pressure washing activities.

3.1.1.1 Print Media

Brochures and flyers were made available to the public in displays the Santa Ynez Valley Botanic Garden (SYVBG), Windmill Nursery, Farm Supply, City Hall, and the City Planning Department. The brochures that were stocked at the SYVBG included *A Gardener's Guide to Clean Water* (36 copies taken), *How to be Water Wise in your Garden* (42 copies taken), *The Ocean Begins on Your Street* (in English [35 copies taken] and Spanish [21 copies taken]), and the *Recognizing and Reporting Stormwater Pollution* pocket guide (31 copies taken). Additionally, a variety of stormwater posters were displayed in the garden's kiosk throughout the year. The City has educational information available in stormwater brochure displays at City Hall and the City Planning Department. These brochures include *A Gardener's Guide to Clean Water*, *How to be Water Wise in your Garden*, *Preventing Soil Erosion on Your Property*, *A Homeowner's Guide to BMPs*, *The Ocean Begins on your Street* (in English and Spanish), and the *Recognizing and Reporting Stormwater Pollution* pocket guide. The *Recognizing and Reporting Stormwater Pollution* pocket guide is also retained in all City fleet vehicles.

3.1.1.2 Our Water, Our World Campaign

The materials made available at Windmill Nursery and Farm Supply promote the *Our Water, Our World* campaign. The campaign uses a point-of-purchase strategy to encourage stores to carry less-toxic products, and to educate staff and customers on how to select and use eco-friendly pesticide products. The program provides current information on products and Integrated Pest Management techniques through training of store staff, fact sheets, and "Eco-Friendly Effective" shelf tags denoting the products in each store that present a reduced risk of stormwater pollution. The reduction of pesticide uses and the increased use of less-toxic products around the home can lead to a reduction of pollutants in run-off and local waterways, as well as a healthier environment for the public. The campaign uses fact sheets about eco-friendly pest control for: ants (in English and Spanish), aphids, cockroaches, fleas, mosquitoes, rats and mice (in English and Spanish), snails and slugs, spiders, and yellowjackets, as well as facts sheets about less toxic products for healthy gardens, lawns, pesticides (in English and Spanish), roses, and weeds. The displays at these locations also include lists of household hazardous waste disposal facilities in Santa Barbara County.

3.1.1.3 Stormwater Management Website

The City posts educational materials tailored to the POCs (nutrients and sediment) on its Stormwater Management website, including brochures such as the Santa Barbara County *Creek Care Guide*, Project Clean Water's *Creekside Concerns: Out of Sight, Out of Mind?*, and Our Water Our World's *Use and Disposal of Pesticides* fact sheet. The City also provides weblinks on its website to additional resources including the Project Clean Water, Our Water Our World, LessisMore.org, and WaterWiseSB.org. The City's Stormwater Management webpage had consistent public interaction, with a total of 203 views throughout the reporting year.

Two online surveys (one for residents and one for restaurants) are available on the City's stormwater webpage, which consist of questions designed to assess the respondents' knowledge of the Stormwater Program. The webpage format was updated to make the survey more apparent in this reporting year, but despite this and the City's promotion of the survey during community events and restaurant inspections, survey response has been low:

- Year 2: 4 responses
- Year 3: 5 responses
- Year 4: 2 responses
- Year 5: 1 response
- Year 6: 5 responses
- Year 7: 1 response
- Year 8: 0 responses
- Year 9: 1 response

The City will continue to promote the surveys and will assess whether changes to the website are needed to highlight the surveys in Year 10.

3.1.1.4 Outreach During FOG and IWD Inspections

The City continued to distribute education and outreach materials related to nutrient pollution during Fats, Oil, and Grease and Industrial Waste Discharge inspections (*Guide for Kitchen BMPs*, *Restaurant's Guide to BMPs*; *Beverage Manufacturing and Stormwater Automotive Guide to BMPs*, and *Mobile Cleaner's Guide to BMPs*).

3.1.1.5 Stormwater Hotline

During the 2021-2022 reporting year, the City continued to promote the use of its Stormwater Hotline on its website and printed materials including the *Recognizing and Reporting Stormwater Pollution* pocket guide. The City also promotes its Stormwater hotline within the articles and tips distributed through its Direct Mail-Media Campaign. Although the hotline, as well as a stormwater email account, are readily available to the public, they received no inquiries in Year 10.

3.1.1.6 Children's Education

During Year 9, the City coordinated with partner municipalities to obtain virtual assembly videos on water science, called "Shows that Teach". The City coordinated distribution to Oak Valley Elementary School, and two virtual assemblies were held, one for kindergarten through second-grade students and one for third through fifth-grade students, on March 7, 2022. A total of 300 Oak Valley students attended the virtual presentations. The videos were used at elementary schools throughout the County and received positive feedback from teachers and principals at multiple schools.

3.1.2 Public Involvement and Participation (CASQA Outcome Levels 2 & 3)

During the 2021-2022 reporting year, the City's Stormwater Management Program staffed educational booths at three events. The annual Buellton BBQ Bonanza was held on July 31, 2021, with approximately 1,000 people in attendance. Stormwater Management Program personnel hosted a booth with educational displays, promotional items, and an electronic stormwater quiz. Community members who visited the booth were able to take the quiz

to assess their knowledge of stormwater issues and the local management program and take educational brochures and promotional items, including dog waste bag dispensers and City stormwater program reusable tote bags. Stormwater Management Program representatives also attended the College and Career Fair at Santa Ynez Valley Union High School on April 27, 2022. The Stormwater table included the same educational displays and brochures containing stormwater pollution prevention information. Staff discussed the goals of the City's stormwater management program with students that visited the booth as well as City-specific BMPs and steps that residents can take to prevent stormwater pollution. Approximately 200 students attended this event. The Buellton Chamber of Commerce held the Buellton State of the City event on May 25, 2022. Approximately 80 people attended the event, including local business owners, law enforcement, City employees, and elected City Council members. The City of Buellton SWMP representatives discussed common stormwater problems, Buellton priority pollutants, and relevant stormwater BMPs with the attendees. The Stormwater table featured the City's educational display board, educational brochures, and an interested parties list where residents can sign up to receive additional stormwater educational information and event opportunities.

3.1.3 Illicit Discharge Detection and Elimination (CASQA Outcome Level 4)

3.1.3.1 Legal Authority

The City implements its Illicit Discharge Detection and Elimination (IDDE) Program under Buellton Municipal Code Title 15 Stormwater Chapter 15.01 *Stormwater Management and Discharge Control*, as revised by Ordinance 20-08 (Ordinance) and the City's Stormwater Program Management Certification Statement, which provides the City full legal authority to implement and enforce the Small MS4 Permit requirements and City Municipal Code.

3.1.3.2 IDDE Procedures

The City implemented its *Enforcement Response Plan* (ERP) (City of Buellton, 2016 updated 2021) and *Spill Response Plan* (SRP) (City of Buellton 2016, updated 2021). The ERP and SRP provide guidance to City staff and contractors responding to a complaint or notice of a spill, illegal discharge, or illicit connection. Applicable City staff and contractors were provided IDDE staff and pollution prevention and good housekeeping for municipal operations training (29 total trainees). The training is designed to maintain stormwater general awareness of staff and contractors and encourage the reporting of possible illicit discharges or illegal connections. The test of understanding conducted after the training displayed high levels of knowledge retention, with the average test score among trainees being 90%.

3.1.3.3 IDDE Detection, Elimination, and Reporting

During Year 9, three potential illicit discharges or illegal connections were reported and were investigated by City staff and/or its contractors. One of the three investigated reports were determined to have resulted in an illicit discharge.

- The single incident was observed on September 10, 2021. The discharge consisted of wash water from a winery drainage area flowing to the City's MS4. The City's contractor contacted facility personnel cease the discharge and clean up the spill. Winery staff provided photos verifying the cleanup and cessation of discharges the next business day. Reporting procedures per the SRP were completed.

The two other potential illicit discharges were reported by Buellton residents to the City's stormwater contractor. The contractor followed up with an inspection at each location. Both reported incidents were found not to be illicit discharges. Reporting per the SRP was completed.

3.1.4 Pollution Prevention and Good Housekeeping (CASQA Outcome Levels 2-4)

3.1.4.1 FOG and IWD Inspections

The City's contractor conducted 43 FOG and 39 IWD inspections during the reporting year. The City contractors initiated an annual survey during their FOG and IWD inspections beginning Year 2 (11 FOG questionnaires) and have continued inspections in Year 3 (27 FOG and 11 IWD questionnaires), Year 4 (65 FOG and 22 IWD questionnaires), Year 5 (40 FOG and 26 IWD questionnaires), Year 6 (88 FOG and 40 IWD inspections forms, Year 7 (63 FOG and 44 IWD questionnaires), Year 8 (71 FOG and 44 IWD questionnaires), Year 9 (43 FOG and 39 IWD questionnaires). The questionnaires asked the respondents: (1) *Are you familiar with the City of Buellton's Storm Water Program?*; (2) *Are you aware of the storm water requirements for your type of business activity?*; and (3) *Do you believe your business is in compliance with the City's Storm Water Program*? The inspection forms completed during FOG and IWD inspections showed 100% of businesses were familiar with the City's Stormwater Management Program, aware of their business activities impact to stormwater, and believe their business complied with the City's Stormwater Management Program. The City Stormwater Program Coordinator reviewed all FOG and IWD inspection reports for non-stormwater discharges.

The City's online Restaurant Survey (available on the Stormwater Management website) was promoted during facility inspections; however, only one respondent completed the survey (with a score of 100%).

3.1.4.2 Target Audience-Specific BMP Guides

During Year 9, the City and its co-permittee, the City of Solvang, created two new BMP Guides: *Pet Owner's Guide to BMPs* and *Animal Care and Handling Facility's Guide to BMPs*, for animal owners and handlers in the community and assisted the County of Santa Barbara with updating their *A Guide to Composting Horse Manure*. These guides are available on the City's Stormwater Management website. The Cities also submitted an article to the *Santa Ynez Valley News* to promote the new guides.

3.1.4.3 Green Waste Management Campaign

The City continues to contract with a local waste hauler (MarBorg) for management of green waste. The City also coordinates and promotes the annual Christmas Treecycle Program through the Chamber of Commerce *E-Newsletter*, *Buellton Buzz* (water bill Insert) and both the City and MarBorg websites. This program allows residents to drop off their trees until the second week in January for mulching and reuse within the community.

3.1.4.4 Pet Waste Management Campaign

The City maintains 14 Mutt Mitt stations within the City (five at River View Park, three at Oak Valley Park, four at PAWS Dog Park, one on Via Corona (on the school fence), and one at Neighborhood Village Park. Four Mutt Mitt stations are maintained by the Buellton Veterinary Clinic (one on the north and one on the south side of Highway 246, near the intersection with Sycamore Drive; and one on the north and one on the south side of Highway 246, near the intersection with Valley Dairy Road). The Mutt Mitt Program's efforts have helped reduce the amount of pet waste discarded at these locations.

The City continues to promote the CTPL pet waste management campaign on the City's website and through its direct mailers/media campaign via articles in the bimonthly *Buellton Buzz* water bill insert. The City also distributed CTPL outreach materials like flyers and doggy bag dispensers at community events to promote the proper cleanup and disposal of pet waste amongst residents. In the 2020-2021 reporting year, the City initiated a pilot program to focus on additional advertising of the CTPL campaign via an installation of CTPL posters along Via Corona at Oak Valley Elementary, which has heavy dog-walker traffic. Mutt Mitt stations are available at this location, as well as at the adjacent Oak Pak that also has trash cans for disposing of waste. Despite these conveniences, dog waste is often left along the strip of grass between the school and Via Corona. Ten 30-inch signs displaying the various CTPL dogs were installed at intervals along the fence line at Via Corona with the goal of bringing awareness and changing behavior (i.e., reducing the amount of pet waste left in this area). The

estimated quantity of pet waste left in this area has been monitored and recorded at monthly intervals to evaluate the effectiveness of the posters. To date, a significant reduction in waste has not been observed; however, the City will continue to monitor this location and assess additional means of reaching this target audience.

3.1.5 Water Quality Monitoring (CASQA Outcome Level 5)

The City participates in a regional water quality monitoring program, 303(d) Monitoring Program, with the Cities of Solvang, Carpinteria, Goleta and Unincorporated Santa Barbara County, which is described in the draft *Urban Storm Water Monitoring Plan 2015–2018 for the NPDES Phase II Small MS4 General Permit Sections E.13.c 303(d) Monitoring and E.14.a Program Effectiveness Assessment and Improvement Plan* (County of Santa Barbara et al 2015, revised 2016) and its *Quality Assurance Project Plan for Urban Storm Water Monitoring Plan 2015-2018* (County of Santa Barbara et al 2015, revised 2016. The program is intended to address Permit Section E.14.a. PEAIP requirements by applying the results of the wet weather monitoring from representative urban land use sites to the pollutant Load, Prioritization, Reduction (LPR) Model. The first three years of sampling data were analyzed and summarized in the *Urban Stormwater Monitoring Report* (Geosyntec 2018). Per the County of Santa Barbara's 303(d) Monitoring Results 2021-2022 summary memorandum (see attachment to the 2021-2022 MS4 Annual Report), recommendations from the report that were implemented in the 2020-2021 sampling year are:

- Continue monitoring to create a sufficiently robust dataset in order to determine whether mean concentration values used in the LPR Model should be replaced;
- Discontinue pesticides that were not detected in the first three years of the program: carbamates and urea pesticides, diuron and degradates, and neonicotinoids; and
- Discontinue toxicity because there was no statistically significant correlation found between toxicity and the measured constituents that would cause toxicity (i.e., pesticides, metals, and nutrient detections) since without correlation, the data do not provide substantial insight into the characterization of storm water discharges or otherwise inform management decisions.

The City continues to participate in the regional water quality 303(d) Monitoring Program. The City and partner agencies successfully monitored the Buellton industrial location during three storms in the 2021-2022 reporting year. The *303(d) Monitoring Program Results, 2021-2022* summary memorandum (County of Santa Barbara 2022) is provided as an attachment to the MS4 Annual Report. Additionally, the City will continue to conduct an annual condition assessment for each BMP inventoried, in accordance with the *Attachment B - BMP Condition Assessment Guidance to the LPR Model Technical Report* (Geosyntec 2018).

The City will continue to perform these actions to provide data to inform the model and adjust as needed overtime, consistent with the adaptive management framework, and focus on priority areas and POCs.

3.2 TOTAL SUSPENDED SOLIDS

3.2.1 Education and Outreach (CASQA Outcome Levels 2 & 3)

The City continues to maintain the Environmental Protection Agency's (EPA) *Stormwater and the Construction Industry* poster and the *Prevent Soil Erosion on Your Property* brochure on its Stormwater Management webpage. 100% of applicable City staff and contractors were provided with Construction Stormwater Training (seven trainees). The training is designed to provide information to assist in identifying and recommending effective erosion and sediment control BMPs during construction inspections. New pertinent construction stormwwater information is also included. The test of understanding conducted after the training displayed high levels of knowledge retention, with the average score among the seven trainees being 99%.

3.2.2 Illicit Discharge Detection and Elimination (CASQA Outcome Level 4)

The implementation of the City's IDDE Program is described in Section 3.1.3.

3.2.3 Construction Site Stormwater Runoff Control (CASQA Outcome Levels 2 & 3)

During Year 9, the City did not issue any new construction site grading permits that required review of a Stormwater Pollution Prevention Plan (SWPPP), Erosion and Sediment Control Plan (E&SCP) and/or Stormwater Control Plan (SWCP). One construction project was completed during the reporting year, another project that had been approved during a previous year was reopened in Year 9, but remained inactive (no construction or soil disturbance). The City conducted monthly inspections at one active construction site during the reporting year. This appears to be a very effective BMP, as the inspection contractor is able to meet with on-site staff to provide some training and follows the EPR protocol for BMP deficiencies, which has resulted in rapid corrections. The City will continue to monitor the long-term erosion and sediment control measures at each of these construction sites.

In Year 9, there were no site investigations associated with sedimentation/siltation related discharges from construction sites.

3.2.4 Post-Construction Site Stormwater Runoff Control (CASQA Outcome Levels 2 & 3)

In Year 9, no new construction sites received discretionary approval. Three construction projects were in the Engineering project plan check phase that received discretionary approval after March 6, 2014 and may require a SWCP to be submitted to comply with the Central Coast Post-Construction Requirement (PCR) measures. One of the three projects has been cancelled.

3.2.5 Pollution Prevention and Good Housekeeping (CASQA Outcome Levels 2 & 3)

3.2.5.1 Street Sweeping

During Year 9, the City's street sweeping contractor continued to conduct bimonthly street sweeping. A total of 33.5 miles of the City's streets (residential and arterial roads, but not private roads), alleyways, and parking lots were swept twice a month. This comprises nearly all the streets of the 1.58-square mile City. Sweeping the streets regularly is an effective method by which the City prevents sediment and other pollutants from the entering the storm drain conveyance system.

3.2.5.2 Storm Drain Assessment and Cleaning

The City continued to implement its *Storm Drain System Assessment, Prioritization, and Maintenance Standard Operating Procedure* (SOP). In Year 9, the City contracted cleaning of the storm drain system catch basins, drop inlets, area drains, and sidewalk drains. The contractor cleaned 202 of the City's 220 storm drains and removed an estimated total of 3,470 gallons of organic material (383 five-gallon buckets), sediment (281 five-gallon buckets), and trash (thirty-five-gallon buckets). This is a 37% increase from the estimated total in Year 8.

3.2.5.3 Hotspot Inspections

The City's only stormwater pollution "hotspot" is the Wastewater Treatment Plant (WWTP), which was inspected quarterly during Year 9. During the inspections, WWTP staff were instructed on pollution prevention and good housekeeping measures when deficiencies were identified. All observations are recorded in a Hotspot Site Investigation form with a supplemental photographic log for City records.

3.2.6 Water Quality Monitoring (CASQA Outcome Level 5)

The City's water quality monitoring program is described in Section 3.1.5.

4.0 PROGRAM EFFECTIVENESS SUMMARY

The City successfully implemented its Stormwater Management Program in the 2021-2022 reporting year (Year 9). The City has identified the effective strategies used during the past reporting year, as well as the challenges faced, and will use this information to adapt its program with the continued goal of reducing/eliminating the impact of local stormwater quality on downstream receiving water bodies. The City has not identified any significant data gaps and/or revisions to the PEAIP that may be necessary for the evaluation of the POC-specific management questions.

As public health restrictions due to the COVID-19 pandemic loosened, the City was able to implement many BMPs that were not able to be implemented during the pandemic (i.e., public events, in-person meetings, etc.). Outcome Levels 2 and 3 are inherently difficult to quantify; therefore, the assessment of the BMPs used to achieve these are generally qualified. Public events are a means of having direct interaction with the community and stakeholders to gain valuable feedback. The City was also able to continue implementing beneficial BMP alternatives that were adapted during the pandemic. For example, with the prohibition on public events, the City increased virtual and media-based public education and outreach (Outcome Level 2), which may reach a broader audience; this is anticipated to continue.

Collaboration with the City's co-permittee, the City of Solvang, partner agencies, and other stakeholders has continued to be a highly valued resource for the Program and further allowed the Program to evolve. The City will continue to participate in SBCAMM meetings, the OWOW campaign, and educational programs and develop and distribute outreach materials and promote public participation events. On a local level, the City regularly interacts with the community and provides educational materials to the Santa Ynez Valley Botanic Garden, Santa Ynez Valley Humane Society, Oak Valley Elementary School, the City library, community clubs, nurseries, et al. Participating in City events, such as the Buellton BBQ Bonanza, have shown to be an excellent platform for communicating directly with citizens and gaining insight into the public's level of stormwater knowledge, successful outreach strategies, areas to be improved upon, and general comments.

The City is addressing high- and medium-priority POCs by implementing source reduction BMPs, such as (not limited to):

- Outfall screening and inspections and responding to 100% of potential illicit discharges and illegal connections;
- Providing training to 100% of City staff and applicable contractors;
- Contracting cleaning of all storm drains and almost every street in the MS4; and
- Exploring pilot programs, such as continuing the 2020-2021 CTPL pet waste pilot program and continuing to monitor this area for changes in public behavior (Outcome Level 3), exploring other opportunities to increase awareness of the pet waste issue, and assessing the effectiveness of this BMP.

The City will continue to participate in the regional water quality 303(d) Monitoring Program and conduct the annual condition assessment for each BMP inventoried, in accordance with the *Attachment B - BMP Condition Assessment Guidance to the LPR Model Technical Report* (Geosyntec 2018) to provide data to inform the LRP model and achieve Outcome Levels 4 for high- and medium-priority POCs. As stated in the PEIAP, due to the temporal and spatial variability of water quality data, it is extremely challenging and takes many years and a significant amount of data to establish linkages between pollutants in MS4 discharges and the conditions within the receiving waters.

As stated in Section 2, this assessment was conducted according to the management questions, data collection, and data assessment methods outlined within Table 5 and 6 of the PEAIP. The responses to these management questions are summarized in Tables 3 and 4 below.

Table 3. Responses to Nutrients Management Questions

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Education and Outreach [Outcome Level 2-3]					
Has the City developed education and outreach materials with information regarding proper use and disposal of fertilizers?	**Yes**	**Descriptive Statistics** Number of education and outreach materials containing information regarding proper use and disposal of fertilizers.	1 relevant brochure is present on the SWMP website (*Landscaper's Guide to BMPs*), Household Hazardous Waste Disposal Days are advertised on City social media, and links to Marborg waste disposal resources are included in seasonal articles.	**Internal Tracking by Stormwater Program** City SWMP file views/hits (English and/or Spanish).	The City's Stormwater Management webpage had 197 page views during the reporting year.
Are education and outreach materials available at City designated facilities, City sponsored events or on the City website?	**Yes**	Number of education and outreach events participated in and estimated of number of education and outreach materials distributed at City designated facilities, City's sponsored events Stormwater display booth or thru City website.	The City distributed 96 flyers and brochures at 3 outreach events during the reporting year. 532 brochures were taken from displays at displays at City facilities during the reporting year.	Brochure distribution at City designated facilities, City sponsored events or thru City website.	Copies of brochures, social media posts, and articles are retained for City records.
Does the City have a targeted pet waste/livestock educational program?	**Yes**	Number of target audience outreach materials to residents with registered pets, livestock owners, etc.	The City distributed 43 pet waste bag dispensers and 23 *Close the Poop Loop* dog post cards to dog owners at outreach events.	Number of visitors to the City's sponsored events Stormwater display booth.	380 people visited the Stormwater display booth during the reporting year's outreach events.

Table 3. Responses to Nutrients Management Questions (Continued)

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Education and Outreach [Outcome Level 2-3]					
Are education and outreach materials provided during Fats, Oil and Grease (FOG) and/or Industrial Wastewater Discharge (IWD) Inspections?	**Yes**	Number of education and outreach materials provided during FOG and/or IWD Inspections.	Educational surveys were conducted at 43 FOG and 39 IWD inspections during the reporting year.	**Review of External Data Sources** Brochure distribution during FOG and/or IWD Program inspections	Brochures are distributed as-needed (when deficiencies are observed) during FOG and IWD Inspections.
Public Involvement and Participation [Outcome Level 2-3]					
Has the City developed opportunities for citizen participation at City's sponsored events Stormwater display booth?	**Yes**	**Qualitative Assessment** Confirmation of Stormwater Pollution Prevention Interested Parties Sign-Up List at City-sponsored events Stormwater Display Booth	The Interested Parties Sign-up List was provided to the public at 100% of outreach events during the reporting year.	**Interviews/Surveys** **Internal Tracking by Stormwater Program** Number of visitors and stormwater quizzes completed via City's sponsored events Stormwater display booth.	16 stormwater quizzes were completed at outreach events during the reporting year.
Has the City developed opportunities for citizen participation on-line thru the City's Stormwater webpage or Survey Monkey?	**Yes**	**Descriptive Statistics** Number of visitors and stormwater quizzes completed via City's sponsored events Stormwater display booth.	16 Stormwater Quizzes were completed at outreach events during the reporting year.	Number of online Storm Water Management Program surveys completed and interested parties' sign-up inquiry via the City's Stormwater webpage or Survey Monkey.	1 stormwater survey was completed via the City Stormwater website.

Table 3. Responses to Nutrients Management Questions (Continued)

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Public Involvement and Participation [Outcome Level 2-3]					
		Number of online Storm Water Management Program Surveys completed and Interested Parties' Sign-up Inquiry via the City's Stormwater webpage or Survey Monkey.	1 stormwater survey was completed via the City Stormwater website.	**Review of External Data Sources** Number of online Storm Water Management Program surveys completed and Interested Parties' Sign-up Inquiry via the City's Stormwater webpage or Survey Monkey	1 stormwater survey was completed via the City Stormwater website.
Illicit Discharge Detection and Elimination [Outcome Level 4]					
Has the City developed IDDE procedures?	**Yes**	**Qualitative Assessment** Confirmation of local waste hauler (green waste) and Christmas Treecycle Program.	Programs were in place and promoted on City social media during the reporting year.	**Internal Tracking by Stormwater Program** Stormwater Incident Report Form	3 Stormwater Incident Report Forms were completed during the reporting year.
Are FOG and IWD Program participants operating in a manner that prevents nutrients from leaving the site?	**Yes**	Confirmation of City Mutt Mitt Stations biweekly maintenance program	The City maintained 100% of the Mutt Mitt Stations during the reporting year.	Mutt Mitt Station biweekly maintenance	The City maintained 100% of Mutt Mitt Stations during the reporting year.

Table 3. Responses to Nutrients Management Questions (Continued)

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Illicit Discharge Detection and Elimination [Outcome Level 4]					
Are green waste and pet waste collection programs in place?	**Yes**	Confirmation of ongoing City Staff IDDE Training.	100% of appliable City staff received annual IDDE training during the reporting year, other than one person who is in leave (27 total trainees).	**Site Investigations/ Inspections** City IDDE site investigations and/or inspections with direct observation of an IDDE.	One incident was determined to have resulted in an illicit discharge during the reporting year. The discharge was eliminated and cleaned up. The City's SPR and ERP were followed.
Does City have legal authority to address non-storm water discharges?	**Yes**	Confirmation of established City Municipal Code and Certification of Legal Authority.	Municipal Code and Certification of Legal Authority have been established.	**Review of External Data Sources** FOG and/or IWD inspection reports and/or violations	43 FOG and 39 IWD inspections were conducted during the reporting year.
Local Hauler Green Waste Website/MailersThe Marborg Green Waste Program was in place and promoted on City social media during the reporting year.		**Descriptive Statistics** Number of IDDE investigations and/or inspections and follow up at facilities with deficiencies.	100% of reported discharges (3) were investigated during the reporting year.	**Review of External Data Sources** FOG and/or IWD inspection reports and/or violations	43 FOG and 39 IWD inspections were conducted during the reporting year.
		Number of FOG and/or IWD inspection reports and/or violations	43 FOG and 39 IWD inspections were conducted during the reporting year.		

Table 3. Responses to Nutrients Management Questions (Continued)

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Pollution Prevention and Good Housekeeping [Outcome Level 2-4]					
Is the City effectively implementing BMPs (e.g., Mutt Mitt Stations) that target nutrient reduction in waterways?	**Yes**	**Qualitative Assessment** Confirmation of ongoing City Staff Training	27 City staff participated in Pollution Prevention and Good Housekeeping training during the reporting year. The average test score among trainees was 90%.	**Interviews/Surveying** **Review of External Data Sources** FOG and/or IWD inspection reports	43 FOG and 39 IWD inspections were conducted during the reporting year.
Are FOG and/or IWD Program participants implementing Pollutant Prevention and Good Housekeeping practices?	**Yes**	**Descriptive Statistics** Number of FOG and/or IWD Inspection Reports	43 FOG and 39 IWD inspections were conducted during the reporting year.	FOG and/or IWD inspection report stormwater questionnaires	Stormwater questionnaires were completed at 43 FOG and 39 IWD inspections during the reporting year.
Are FOG and/or IWD Program participants aware of the City's SWMP requirements?	**Yes**				
Are FOG and/or IWD Program participants aware of SWMP requirements for their business activity?	**Yes**				
Do the FOG and IWD Program participants believe they are in compliance with the City's Stormwater Program?	**Yes**				

Table 3. Responses to Nutrients Management Questions (Continued)

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Water Quality Monitoring [Outcome Level 5]					
Is urban discharge a significant source of nutrients to receiving water?	Unknown at this time.	Comparing modeled data to established targets.	303(d) Monitoring uses targets established in EPA Criteria.	Monitoring and sampling results.	303(d) samples are provided as an attachment to the Annual Report.
		Use local data acquired through regional 303(d) monitoring program.	303(d) samples are provided as an attachment to the Annual Report.	Pollutant load model results.	Sampling data collected by the City and partner agencies will be used to inform the LRP Model in the future.

Table 4. Response to Sediment/Siltation (Total Suspended Solids) Management Questions

Management Questions	2021-2022 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Education and Outreach [Outcome Level 2-3]					
Are City Grading Inspectors trained to review and inspect erosion and sediment control measures?	**Yes**	**Qualitative Assessment** Confirmation of ongoing City Grading Staff Training	100% of applicable City staff (7) received construction stormwater training during the reporting year.	**Internal Tracking by Stormwater Program** Internal tracking by City Engineering Department and/or Division training	Training results are maintained for the City's records. The average test score among trainees was 99%.
Are there educational opportunities at county sponsored events?	**Yes**	Confirmation of ongoing City Grading Staff Training	100% of applicable City staff (7) received construction stormwater training during the reporting year.	Number of connections to construction contractors through grading permits and inspections	There was 1 active construction project within the City's jurisdiction during this reporting year. The City maintained contact through site inspections and email communications. The City also provided BMP consultation on 2 pending projects.
Are construction contractors informed of proper erosion and sediment control measures?	**Yes**	Number of outreach events participated in and outreach materials distributed to construction contractors	Construction contractors were present at 2 of the reporting year's outreach events. Materials were distributed at the City's stormwater display booth during events, as well as on an as-needed basis during development inquiries and site inspections.		

5.0 REFERENCES

California Stormwater Quality Association (CASQA)

2015 *Program Effectiveness Assessment and Improvement Plan (PEAIP) Framework* (April). Available online at: Guidance Documents | CASQA – California Stormwater Quality Association.

Central Coast Regional Water Quality Control Board

2014 *Solvang–Buellton Urban Water Quality Profile* (April 24).

City of Buellton

2015, updated 2017 *Urban Storm Water Monitoring Plan 2015–2018 for the NPDES Phase II Small MS4 General Permit Sections E.13.c 303(d) Monitoring and E.14.a Program Effectiveness Assessment and Improvement Plan.*

2016 *Program Effectiveness Assessment and Improvement Plan.*

2016, updated 2021 *Enforcement Response Plan*.

2016, updated 2021 *Spill Response Plan.*

2020 *Buellton Municipal Code Title 15 Stormwater Chapter 15.01 Stormwater Management and Discharge Control, as revised by Ordinance 20-08.*

County of Santa Barbara, City of Goleta, City of Carpinteria, City of Buellton, and City of Solvang

2015, revised 2016 *Quality Assurance Project Plan for Urban Storm Water Monitoring Plan 2015-2018.*

2015, revised 2016 *Urban Storm Water Monitoring Plan 2015–2018 for the NPDES Phase II Small MS4 General Permit Sections E.13.c 303(d) Monitoring and E.14.a Program Effectiveness Assessment and Improvement Plan.*

Geosyntec Consultants

2015 Memorandum to County of Santa Barbara, Project Clean Water: *Program Effectiveness Assessment and Improvement Plan Load, Prioritization, Reduction, Model (LPRM) Guidance Document*. April 15.

2018 *Pollutant Load, Prioritization, and Reduction (LPR) Model, Attachment B – BMP Condition Assessment Guidance for the Cities of Buellton, Carpinteria, Goleta, and Solvang, and the County of Santa Barbara*.

State Water Resources Control Board

2013 *Small MS4 General Permit WQ Order 2013-0001-DWQ as amended by Orders WQ 2015-0133-EXEC, WQ 2016-0069-EXEC, WQ 2018-0001-EXEC, and WQ 2018-0007-EXEC.*

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Our Water Our World

Annual Summary Report

California Stormwater Quality Association

September 2022

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION®

Preface

The California Stormwater Quality Association (CASQA) is a nonprofit corporation that advances sustainable stormwater management protective of California water resources. With approximately 2,000 members, CASQA's membership is comprised of a diverse range of stormwater quality management organizations and individuals, including over 180 cities, 23 counties, special districts, federal agencies, state agencies, ports, universities and school districts, wastewater agencies, water suppliers, industries, and consulting firms throughout the state. Collectively, CASQA represents over 26 million people in California.

This report provides CASQA's members with focused information on its efforts to raise awareness about the connection between pesticide use and water quality through the Our Water, Our World program (OWOW). The goal of Our Water, Our World is to support a statewide integrated pest management IPM outreach program that provides direct to consumer information on less-toxic IPM practices.

By focusing on true source control and public outreach, OWOW advances two core components of *CASQA's Vision for Sustainable Stormwater Management*[1] (Principles 1 and 3).

Acknowledgements

Our Water, Our World is funded by CASQA, the organizations implementing the OWOW program (see Table 1 in Section 2 of this report) and is sponsored by the Bay Area Clean Water Association (BACWA). This report was prepared by Suzanne Bontempo, with support from Roshan Christoph (CASQA).

Disclaimer

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[1] https://www.casqa.org/sites/default/files/downloads/final_-_vision_for_sustainable_stormwater_management_-_10-07-2020.pdf

Table of Contents

Section 1. Introduction

Our Water Our World (OWOW) Our Water, Our World (OWOW) is an award-winning partnership between city- and county-based water pollution prevention agencies and garden centers and hardware stores that sell pest control products. Initiated in 1998, the program focuses on less-toxic, eco-friendly products and techniques as many common pesticides are harmful to sensitive species and ecosystems when they reach local creeks, bays, and the ocean.

OWOW started as a pilot project in 1998, in just a handful of stores, initiated by the Contra Costa County Sanitation District, the City of Palo Alto Regional Water Quality Control Plant, and the Marin Countywide Stormwater Pollution Prevention Program. The program quickly grew and was administered by the former Bay Area Stormwater Management Agencies Association from 1999 – 2021. During that time, over 130 agencies in 16 counties implemented the program, working in approximately 239 stores. Starting in January 2022, the program was transferred to CASQA, with the goal of providing statewide access to this important and successful outreach program.

From a stormwater management perspective, OWOW is an excellent opportunity and cost-efficient way to educate the public and reduce toxicity in waterways from current use pesticides. Several municipalities utilize OWOW to meet permit requirements, including the San Francisco Bay Area Municipal Regional Permit[2], the Central Valley Region-wide MS4[3], and the Phase II – Small MS4 General Permit[4].

This report provides a summary of the OWOW program activities implemented between July 2021 and June 2022.

Section 2. OWOW Program Elements

The OWOW program consists of several elements, which are integral to its effectiveness.

2.1 INTEGRATED PEST MANAGEMENT (IPM) ADVOCATES

A critical component of the program, IPM Advocates are individuals who have been specifically trained on how to engage with retailers and the public. IPM Advocates provide in-store presentations and advice to customers about pest management methods that are healthier for people and the environment. IPM Advocates also provide training for store employees and on an annual basis, receive continuing education and training.

2.2 EDUCATIONAL MATERIALS

In the store, consumers are directed to less-toxic products and techniques through a variety of ways:

- Fact sheets are provided to educate the public on a wide range of pest management topics
- Shelf tags and display materials guide customers to less-toxic products
- Additional educational resources are provided, such as product lists and information about active ingredients in pest management products
- Many of the educational outreach materials provided in-store are being updated to include QR codes, linking directly to the OWOW website.

[2] Municipal Regional NPDES Permit and Waste Discharge Requirements General Permit for Discharges from Municipal Separate Storm Sewer Systems (MS4), California Regional Water Quality Control Board – San Francisco Bay Region, 2009. Water Quality (WQ) Order R2-2009-0074-DWQ, NPDES NO. CAS612008, CA.
[3] Municipal Regional NPDES Permit and Waste Discharge Requirements General Permit for Discharges from Municipal Separate Storm Sewer Systems (MS4), California Regional Water Quality Control Board – Central Valley, 2016. Water Quality (WQ) Order R5-2016-0040-DWQ, NPDES NO. CAS0085324, CA.
[4] NPDES Permit for Waste Discharge Requirements for Discharges from Small MS4, California State Resources Control Board, 2013. WQ Order 2013-0001-DWQ, NPDES No. CAS000004, CA.

Online, via the OWOW website, consumers can view the following:

- All 18 fact sheets
- A list of stores participating in OWOW in their local communities
- A current list of eco-friendly and less-toxic products available in stores

2.3 TRADE SHOWS

OWOW representatives provide exhibits annually at trade shows to educate buyers on less-toxic products. Participation in these events in a critical step to ensure stores carry less-toxic products.

Section 3: OWOW Partnerships

The program is currently administered by CASQA, implemented by local cities and counties, with IPM Advocates and University of California Statewide IPM Program (UC IPM) serving as collaborative partners as shown in Figure 1.

CASQA manages and provides the central services necessary to operate and maintain Our Water, Our World, including the development of the in-store education materials (e.g., less-toxic product lists, label files, and active ingredient lists), creation and updates of outreach materials, operation and updates to the OWOW website, vendor (i.e., retail partners and pesticide distributors) outreach, preparation of an annual report, fulfillment of outreach materials orders, and program management and development.

IPM Advocates are highly trained individuals that support local implementation of the OWOW program in retail stores and are a crucial component of the OWOW program. They provide retail nurseries, hardware stores, and garden centers direct to consumer information on integrated pest management tools, products, and practices. They are the link between the municipalities and the retailers where they reach consumers. the IPM Advocates provide IPM trainings for store staff, and host webinars and events for customers via separate contracts with local agencies. Suzanne Bontempo was contracted by CASQA to coordinate the IPM Advocates to keep continuity within the program, hold regular meetings to communicate updates on new pests and new pest management techniques, and maintain the outreach material. The active IPM Advocates include: Suzanne Bontempo, Debi Tidd, Julie Barbour, Lorenzo Levinger, Charlotte Canner, Maris Sidenstacker, and Lisa Ratusz.

The UC IPM Program provides research and expertise on IPM practices promoted throughout the state and maintains a website of less-toxic integrated pest management practices for nearly 1000 home, garden, landscape, and turf pests. Karey Windbiel-Rojas, Staff Director for Urban and Community IPM, UC IPM Program has been involved with the IPM Advocate program since its inception and continues to assist with advocate training, technical resources on pest management practices, and as a liaison with UC resources.

Municipal agencies subscribe to OWOW through CASQA and implement the OWOW program in their local retail stores by contracting with IPM Advocates or using municipal staff or other contractors. Implementation may be implemented by a single agency at stores within their jurisdiction or organized at a regional scale, where Agencies combine resources to implement the OWOW program at select stores used by multiple jurisdictions. In addition, municipal agencies conduct outreach to educate residents about the OWOW program.

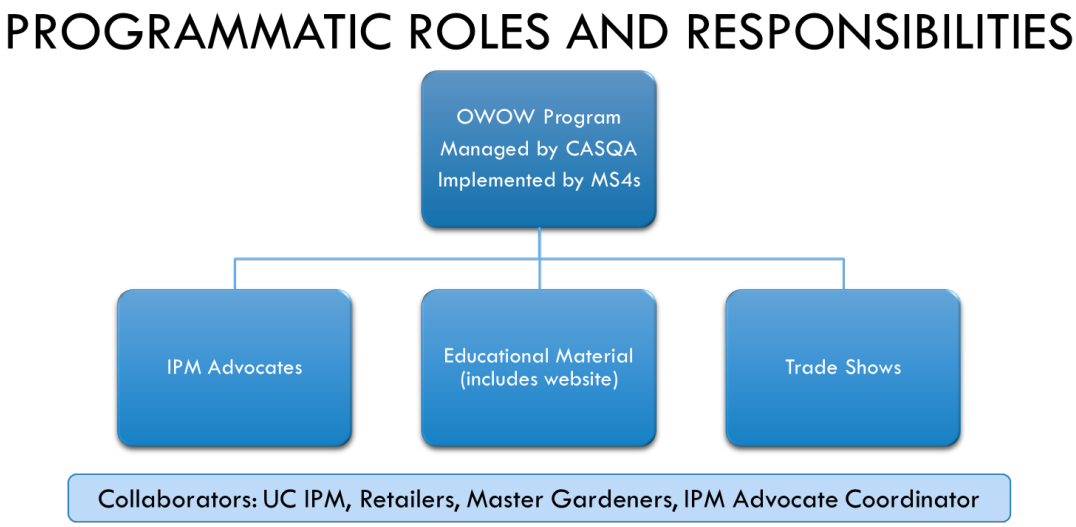

Figure 1. OWOW Program Roles and Responsibilities

Table 1 provides the list of agencies implementing OWOW as of June 30, 2022. Bay Area Clean Water Agencies (BACWA) continue to support the OWOW program as a sponsor.

Table 1 List of Agencies Implementing OWOW

Bay Area

Alameda County

Alameda County Flood Control & Water Conservation District

Alameda County Public Works Agency

City of Alameda

City of Albany

City of American Canyon

City of Antioch

City of Belmont

City of Belvedere

City of Berkeley

City of Brentwood

City of Brisbane

City of Burlingame

City of Calistoga

City of Campbell

City of Clayton

City of Cloverdale

City of Concord

City of Cotati

City of Cupertino

City of Daly City

City of Dublin

City of East Palo Alto

City of El Cerrito

City of Emeryville

City of Foster City

City of Fremont

City of Half Moon Bay

City of Hayward

City of Healdsburg

City of Hercules

City of Lafayette

City of Larkspur

City of Livermore

City of Los Altos

City of Martinez

City of Menlo Park

City of Mill Valley

City of Millbrae

City of Milpitas

City of Monte Sereno

City of Mountain View

City of Napa

City of Newark

City of Novato

City of Oakland

City of Oakley

City of Orinda

City of Pacifica

City of Palo Alto

City of Piedmont

City of Pinole

City of Pittsburg

Bay Area (Con't)

City of Pleasant Hill

City of Pleasanton

City of Redwood City

City of Richmond

City of Rohnert Park

City of San Bruno

City of San Carlos

City of San Jose

City of San Leandro

City of San Mateo

City of San Pablo

City of San Rafael

City of San Ramon

City of Santa Clara

City of Santa Rosa

City of Saratoga

City of Sausalito

City of Sebastopol

City of South San Francisco

City of St. Helena

City of Sunnyvale

City of Ukiah

City of Walnut Creek

Contra Costa Clean Water Program

Contra Costa County

County of Alameda

County of Marin

County of Napa

County of San Mateo

County of Santa Clara

Marin Countywide Stormwater Pollution Prevention Program

Mendocino County

Napa Countywide Stormwater Pollution Prevention Program

San Mateo Countywide Water Pollution Prevention Program

Santa Clara Valley Water District

Sonoma County

Sonoma County Water Agency

Town of Atherton

Town of Colma

Town of Corte Madera

Town of Danville

Town of Fairfax

Town of Hillsborough

Town of Los Altos Hills

Town of Portola Valley

Town of Ross

Town of San Anselmo

Town of Tiburon

Town of Windsor

Town of Woodside

Town of Yountville

Union City

Vallejo Flood and Wastewater District

Zone 7 Water Agency

Central Valley

Butte County

City of Ceres

City of Davis

City of Escalon

City of Lathrop

City of Lincoln

City of Lodi

City of Manteca

City of Newman

City of Patterson

City of Ripon

City of Riverbank

City of Roseville

City of Sacramento

City of Stockton

City of Tracy

City of Turlock

City of West Sacramento

City of Woodland

City of Yuba City

County of Sacramento

County of San Joaquin

El Dorado County

Fresno Metropolitan Flood Control District

Sacramento Stormwater Quality Partnership

Mountain House Community Service District

San Joaquin County

Stanislaus County

Yuba City

Central Coast

City Buellton

City of Carmel-by-the Sea

City of Carpinteria

City of Del Rey Oaks

City of Goleta

City of Monterey

City of Pacific Grove

City of Sand City

City of Santa Maria

City of Seaside

City of Solvang

County of Monterey

Santa Barbara County

Southern California

City of Santa Clarita

Sponsor

Bay Area Clean Water Agencies (BACWA)

Section 4. Annual Program Implementation (2021-2022)

The following OWOW outreach services were conducted between July 2021 and June 2022.

4.1 IPM ADVOCATES

After training by the University of California IPM Program, Advocates are contracted by local municipalities and then assigned to stores, where they pass on their knowledge to staff and hold educational events for customers Excellent relationships between the Advocates and store management and staff are key to the successful promotion of less-toxic, eco-friendly projects. Current IPM Advocates were trained prior to COVID-19 pandemic. Between July 2021 and June 2022, no training for new or existing IPM advocates was conducted.

IPM Coordination

Ms. Bontempo held regular meetings to communicate updates on new pests and new pest management techniques with current IPM Advocates.

DPR Grant Application

In the spring of 2022, CASQA and collaborating partners initiated worked on a draft DPR grant application to fund the development of a IPM Advocate Training Program. The application was held hold until the program needs are further refined, and the best funding approach is identified. The future activities to develop a IPM Advocate Training Program are described in Section 5.

4.2 EDUCATIONAL OUTREACH MATERIAL

Educational material includes fact sheets for specific pests, gardening and pesticide applications, shelf labels to identify eco-friendly products in stores, and OWOW website that makes the material accessible to the public. Some examples of OWOW outreach materials are provided in Appendix A. New OWOW outreach materials were not printed in this reporting year as the local jurisdictions and IPM Advocates had sufficient materials in stock.

Fact Sheets

There are 18 OWOW fact sheets available, including four (4) available in both English and Spanish. During the COVID-19 pandemic, the need to transition from paper fact sheets to a digital option was identified. Trackable QR codes were created to digitally access the OWOW fact sheets in the pesticide aisle at each retailer. The trackable QR codes record which fact sheets are viewed by consumers in retail stores. The trackable QR code posters were developed in 2021 and made available in select stores starting January 2022. According to the data from the QR code posters, the top three fact sheets viewed between January and June 2022, were ants, rats and mice, and moles, voles, and gophers. Table 2 presents a summary of QR code scans per month for each fact sheet.

Website

The OWOW website provides public access to OWOW outreach material, IPM resources, and the Store Locator, an interactive map to search for participating stores. Updates to the Store Locator are made on a quarterly basis. The Store Locator was revised in June 2022 to add 11 new participating stores and remove 6 stores that are closed or no longer supporting the OWOW program.

Store-based Product Lists

The store-based product lists provide the current lists of the eco-friendly products that the Home Depot stores and Ace Hardware stores sell each year. IPM Advocates use the store-based product lists to identify the eco-friendly products on store shelves using labels or “shelf talkers/tags”. Each year, the lists are reviewed, and updates are made as needed in consultation with subject-matter-experts. This year, the new products had the same active ingredients as others and

therefore, no revisions were necessary. Each year, more pesticide companies label eco-friendly products responding to purchasing habits by the consumer. Appendix B provides the products lists from 2022.

Table 2. Summary of QR Code Scans by OWOW Product: January to July 2022

OWOW Product	Total	Jan 2022	Feb 2022	March 2022	April 2022	May 2022	June 2022
OWOW Website	45	1	5	16	8	8	7
Ants	83	1	6	25	22	11	18
Aphids	62	0	3	19	16	11	13
Bed Bugs	29	0	3	4	9	5	8
Cockroaches	65	0	5	10	19	14	17
Fleas	40	0	3	4	14	10	9
Healthy Gardens	25	0	2	7	9	5	2
Hiring a Pest Co	15	0	2	4	5	3	1
Lawns	17	0	3	1	1	4	8
Moles Voles Gophers	92	0	6	25	25	14	22
Mosquitoes	51	0	9	8	13	11	10
Pesticide U&D	16	0	2	2	4	6	2
Pesticides & Water Quality	9	0	1	2	1	3	2
Rats & Mice	68	1	3	15	18	15	16
Roses	38	1	7	9	8	7	6
Snails & Slugs	36	0	2	9	15	4	6
Spiders	30	1	2	3	6	11	7
Weeds	21	1	2	6	6	3	3
Yellowjackets	30	1	2	8	9	7	3
Spanish Fact Sheets	23	1	2	9	2	5	4
Total	795	8	70	186	210	157	164

4.3 VENDOR OUTREACH

Education of vendors and retailers on less-toxic products is a critical step to ensure stores carry less-toxic products.

Retail Partners

Ms. Bontempo as the IPM Advocate Coordinator leads collaboration with key retail partners. During the past year, she maintained a relationship with the Home Depot Corporate Sustainability Officer. She communicates quarterly to keep goals aligned and to provide Home Depot with updates on OWOW activities in the stores. Each year, OWOW receives a letter of support from the Home Depot Corporate Sustainability Officer that facilitates collaboration with local retailers. Home Depot Corporate is a model retailer partner and OWOW strives to replicate this partnership with other retailers and vendors. Ms. Bontempo plans to initiate communications with new contacts at Lowe's. She has also met with the CNRG Ace Hardware group with the goal of expanding the OWOW program into more of their stores. hardware group in hopes to expand the OWOW program throughout their stores.

Vendor Communication

OWOW has established relationships with national pesticide manufacturers. Annual communication with vendors is essential to learn about new pesticide active ingredients, products, and market trends. Key vendors have reported many obstacles in 2022 as follows:

- Supply chains are still straining product supply
- In-store sales have returned from the pandemic
- During a drought, consumers tend to purchase less live plant material.
- Consumer expendable cash flow is less available due to inflation and fuel cost

Trade Show Booths

Attending trade shows provides an opportunity to meet the vendors, learn about the new products coming onto the marketplace in California, answer questions, and provide mentorship to the retail buyers. In 2022, OWOW representatives planned to attend trade shows, however, the in-person events were suspended due to COVID-19. Below is the list of trade shows that OWOW representatives typically attend each year.

- Central Lawn & Garden Distributor Trade Show, Las Vegas NV
- L&L Nursery Distributor Trade Show, Reno, NV: OWOW representatives joining the L&L Distributors virtual trade show.
- NorCal Landscape Trade Show, San Mateo, CA

4.4 TRAINING AND OUTREACH FOR RETAILERS AND CONSUMERS

IPM Advocates and other OWOW service providers conduct OWOW outreach activities to educate retailers and consumers at the local level. Local OWOW Implementation activities vary between agencies. Agencies receive tailored OWOW reports from their contracted IPM Advocate with a summary of their local OWOW data (for example, the number of trainings, the number of staff trained, and/or the number of fact sheet distributed).

IPM Advocates provided OWOW services to approximately 243 participating retailers throughout California. This reporting year, 9 retailers were added in the Sacramento area, Marin County, Alameda County, Sonoma County, and Contra Costa County. Table 3 provides a summary of outreach activities between July 2021 and June 2022. These activities were funded by local municipalities and stormwater programs.

Table 3 Summary of Outreach Activities

Audience	OWOW Outreach Activity
Retailers	243 retailers participating in the OWOW program
	115 trainings were conducted
	768 retail staff were trained
Direct to Consumer	99 OWOW public outreach events
	8781 people attended OWOW public outreach events (In person and virtually)
	795 scans of QR Codes for OWOW fact sheets

Note: QR Code tracking began January 1, 2022

IPM Advocates conducted 115 trainings and trained 768 retail store staff. Main topics include IPM, managing pest problems with a less-toxic approach. In addition, IPM Advocates provided tips for new gardeners and how to protect gardens in the time of drought. Education has expanded to include protecting gardens during times of drought since plants are more prone to pest problems when they are (drought) stressed. IPM Advocates provided more digital support including a monthly retailer e-newsletter, online webinars and social media posts to the public. These activities are described in more detail below.

Impacts due to COVID-19 Pandemic:

- Retailers were still impacted by the supply chain challenges and inventory shortages.
- Retailers were also challenged by labor shortages, frequent new hires, and key staff out due to coronavirus related exposure or illness.
- Scheduling staff trainings for the retailer partners was challenging due to labor shortages and staff calling out due to coronavirus exposure. This caused IPM Advocates to reschedule several trainings, and/or work with the few staff present on the day.
- When in-person, IPM Advocates worked with store staff in smaller groups of multiple training sessions back-to-back.

OWOW Retailer e-Newsletter:

- Currently, of the total 243 retailers, there are 161 retailers receiving the e-newsletters.
- A monthly newsletter is emailed to participating retailers at the beginning of each month. This newsletter contains information on seasonal pest problems and eco-management solutions and assists with ensuring that all key store staff, including managers, are receiving the information. Many of the managers print the OWOW newsletter and post it for all staff to review. The newsletter lists the upcoming events that IPM Advocates are participating in, such as in-person tabling events or on-line webinars. Retailers have then posted the relevant events into their newsletters that are sent out to their customers. The newsletter also includes information on upcoming professional trainings, such as the Qualified Water Efficient Landscape (QWEL) trainings.

OWOW IPM Educational Webinars:

- Webinars were developed in lieu of in-person outreach events during the first year of the COVID-19 pandemic. These webinars have grown in popularity and now are a regular service provided by IPM Advocates to agencies that contract with them at the local scale. Each registrant received a program outline and a 'Helpful Gardening Resource' page.

OWOW IPM Social Media Posts/Tips:

- OWOW IPM tips were created for social media content as an additional way to expand the OWOW message to the public. IPM Advocates create seasonal content as a guide to prevent and manage each pest. This public outreach option is available at the local scale to those agencies contracted with an IPM Advocate. Agencies retain data of views and responses to each post.

Twelve bilingual IPM tips were provided throughout the contract year:

- Rodent exclusion
- Fall for planting
- Hiring a Pest Control Company
- Organic Fertilizers
- Rose Care
- Composting
- Yellow jacket prevention
- Installing a rain garden
- Dormant sprays
- Weed management
- Mosquitos
- Powdery mildew

Section 5: OWOW Program Development

To support a growing demand for OWOW outreach material and IPM Advocates, there are efforts currently underway, as well as future considerations, that are necessary to advance the OWOW program and its services.

5.1 UPDATES IN PROGRESS

Review of OWOW Outreach Materials

CASQA is establishing a review process for OWOW materials. In 2023, it is anticipated that OWOW outreach materials will be reviewed for technical accuracy and updated by subject matter experts. Retailer e-newsletters will be reviewed by subject matter experts prior to release starting July 2022. OWOW will also be coordinated with CASQA's larger pesticide regulatory work (CASQA, 2022) [5].

New Order Process for OWOW Outreach Materials

The process for ordering OWOW outreach material was modified to conduct bulk ordering twice per year (starting August 2022). Ordering in bulk provides the best price for all materials. CASQA developed a new online order form to compile the bulk order.

5.2 FUTURE CONSIDERATIONS

Annual Reporting

In 2023, CASQA will develop a new process, schedule and supporting templates and tools, as needed, for OWOW Subscribers to report on OWOW implementation activities. This information can then be integrated into the Annual Report to provide a more robust perspective of local implementation activities throughout the state.

IPM Advocate Training Program

To operate at a statewide scale, and in a sustainable manner, certain aspects of the existing OWOW program must be formalized and expanded. In 2022, CASQA began developing an outline for a potential Qualified IPM Advocate Training Program. CASQA will coordinate workgroups comprised of OWOW Subscribers, current IPM Advocates, and training experts to develop a framework for the Qualified IPM Advocate Training Program. This framework will be utilized to seek outside funding (e.g., a future grant application or partnership with another organization).

IPM Advocate "In-Training"

While IPM Advocate training opportunities are not available, Suzanne Bontempo, as the IPM Advocate Coordinator will provide support for individuals interested in becoming IPM Advocates. The IPM Advocate "In-training" program will ensure that individuals providing OWOW outreach services in stores are providing the latest information and are consistent with the program. The IPM Advocate "In-training" program will be initiated in Fall of 2022 and provide a bridge for additional IPM Advocate services until the Qualified IPM Advocate program can be developed and implemented.

[5] See report from 2022. the Pesticide Annual Report and Effectiveness Assessment. California Stormwater Quality Association. Sacramento, CA. This document is available in the CASQA Member Library.

Appendix A – Images of OWOW Outreach Materials

Figure A.1 Trackable QR Code Poster in Store Aisle

EFFECTIVE ECO-FRIENDLY PEST CONTROL • LESS-TOXIC PRODUCTS

CONTROLLING ANTS IN YOUR HOME

CONTROL ANTS IN YOUR HOME WITH THESE ECO-FRIENDLY PRODUCTS

Bait stations containing borates or hydramethylnon	Amdro Kills Ants Ant Killer, Amdro Kills Ants Ant Killing Bait, Combat Source Kill 4 products, KM Ant Pro products, Maggie's Farm Simply Effective No Spill Ant Kill, Terro Ant Killer II Liquid Ant Baits
Diatomaceous earth (DE) products	Concern Diatomaceous Earth Crawling Insect Killer, Safer Brand Diatomaceous Earth Ant and Crawling Insect Killer, St. Gabriel Organics Insect Dust—Diatomaceous Earth
Applicator for diatomaceous earth (DE)	Pest Pistol
Plant-based insecticides	EcoLogic Ant and Roach Killer, Ecosmart Ant and Roach Killer, Orange Guard
Hose attachment	Bug Blaster
Sticky barrier	Stikem Special pest glue, Tree Tanglefoot Insect Barrier

Argentine ants are frequent invaders in California homes. They are tiny (1/8 inch). They come inside a few at a time at first (the scouts), and then in long lines, following scent trails to a food source.

A QUICK FIX FOR AN ANT EMERGENCY

If you deal with ants when they first come inside, a few simple steps can take care of the problem.

1. Find what ants are after (usually leftover food) and where they are entering the room (usually through a crack in the wall). Mark the spot so you can find it again. If you can't find an entry point, see Step 4.
2. Spray lines of ants with soapy water and wipe up with a sponge, and clean up any food or spills.
3. Next, block entry points temporarily with a smear of petroleum jelly or a piece of tape.
4. If you can't find an entry point, clean up the ants (Step 2). Place a bait station in an out-of-the-way spot on the line the ants have been following. Remember to remove the bait station when the line of ants has disappeared so you don't attract more ants into the house. (See *Tips for Using Ant Baits.*)

While they can be pests, ants are helpful creatures, especially outside. Ants kill and eat many pest insects, help to aerate soil, and recycle animal and vegetable material. This is good news, because it's probably not possible to eliminate ants from their outdoor habitat. The best way to manage an ant invasion is to keep them outside.

KEEP ANTS AWAY

- Store food in the refrigerator, or in containers that seal tightly.
- Keep things clean and dry, and fix leaking faucets and pipes (ants come in to find water as well as food).
- Weather-strip doors and windows.

Choose eco-friendly products for your home and garden. Look for this symbol before you buy.

Figure A.2 Ant Fact Sheet

OWOW Retail Newsletter July 2022 edition

July: Powdery Mildew, rodent exclusion, shade cloth and anti-transpirant
June: Mosquitos, Yellow jackets & Flies or Cucumber beetles

Powdery Mildew

As the summer temperatures warm up & dry out, powdery mildew seems to come on strong. This fungus is most noticed it on the leaves of crape myrtles, summer squash, roses, tomatoes and so many more.

Powdery mildew is a common fungal disease found on many different types of plants. It appears as a white or grayish, powdery growth that is most commonly found on leaf surfaces, but may also infect buds, shoots and even flowers and fruits. This 'powder' is actually the mycelium and spores of the fungi. Powdery mildew is rarely fatal, however on some plants, leaves may yellow and fall off, and leaves and shoots may distort.

There are many different types of powdery mildew fungi that can cause the disease, and spores can be spread to new plants by wind. But all of the spores need leaves free of water to germinate, so water on the plant surfaces can actually inhibit germination and kill the spores. Ideal conditions for powdery mildew are temperatures between 60° and 80° F, but it can be active in temperatures from 55° and 90° F. It is most common in shady conditions and dense plantings.

PREVENTION

The best way to manage powdery mildew is to prevent it through cultural practices.

- Place plants in full sun where possible, and provide good air circulation
- Avoid excess fertilizer that stimulates new growth that is more prone to the fungus. Use compost and organic fertilizers to prevent excessive tender, overgrown foliage that shades the leaves and provides the right conditions for the fungus.
- Prune out small infestations, but don't over-prune to avoid rapid growth.
- Irrigate plants by watering leaves mid-morning to kill the spores, and to allow leaves to dry quickly to avoid other fungal infections.
- Clean up dead plant material and fallen leaves so that spores don't spread and won't be able to overwinter in plant tissue.
- Choose plant varieties that are resistant to powdery mildew when possible.

USING FUNGICIDES

In case of severe infections, there are several environmentally friendly products that can help to manage powdery mildew. Most of these products are best used to prevent powdery mildew, so apply them to plants susceptible to the disease before you see the powdery mildew or in the very beginning stages. Thoroughly cover all plant parts, including under the leaves. Additional applications may be needed as the plant grows.

Figure A.3 July e-Newsletter Page 1

Appendix B – Product Lists January 2022

The Home Depot product list 2022:

Pesticide Bays

Amdro Gopher Traps
BioAdvance House Plant Insect & Mite Control
Bird-B-Gone Stainless Steel Bird Spikes
Black Flag Pantry Pest Trap
Black Flag Roach Motel
Bonid Captain Jack's Lawnweed Brew
Bonide Copper Fungicide
Bonide Cpt Jack's Dead Bug Brew
Bonide Cpt Jack's Dead Weed Brew
Bonide Cpt Jack's Neem Max 70%
Bonide Insecticidal Super Soap
Bonide Mole Max
Bonide Neem Oil
Bonide Orchard Spray
Bonide Repels All
Bonide Rose Rx
Bonide Tomato & Vegetable
Buggy Beds Bed Bug Trap
Critter Ridder
Cutter Essentials Bug Control
Cutter Essentials Outdoor Fogger
Dr. Earth Pest Control Insect Killer
EcoLogic Ant & Roach Killer
EcoLogic Bed Bug Killer
EcoLogic Home Insect Control
Fly Swatter
Garden Safe Fungicide 3
Garden Safe Houseplant & garden
Garden Safe Insecticidal Soap
Garden Safe multi Garden Insect
Garden Safe Neem Oil
Garden Safe Rose & Flower
Garden Safe Slug & Snail
Gopher Traps
Green Gobbler 20% Vinegar Weed Killer
Harris Roach Tablets
Havahart Live Animal Trap
Hot Shot Bed Bug Killer Dust
Hot Shot MaxAttrax Roach Killing Powder
Liquid Fence Deer & Rabbit Repellent
Monterey B.t.
Mosquito Dunks
Mouse Traps
Mouse X
Ortho Bed Bug Trap
Ortho Ground Clear Weed & Grass Killer (green label)
Owl, Garden Defense
Raid Ant Baits III
Raid Fly Ribbon
Raid Fly Stick
Raid Fly Trap
Raid Window Fly Trap
Rat Traps
Rat X
Rescue Fly Trap
Rescue Fly Trap Refill
Rescue Outdoor Fly Trap
Rescue W-H-Y Trap
Rescue W-H-Y Trap Refills
Rescue Wasp Trap Stik
Rescue Yellow Jacket Trap
Rescue Yellow Jacket Trap Cartridge
Rescue Yellow Jacket Trap Refill
Sevin 2-in-1 Sulphur Dust
Safer Brand Ant, Roach & Spider Killer
Safer Brand Diatomaceous Earth Crawling Insect Killer
Safer Brand Home Pest Control
Safer Brand Indoor Fly Trap
Safer Brand Indoor Fly Trap Refills
Safer Brand Snake Shield
Skunk Scram Repellent Granulars
Southern Ag Thuricide Bt
Terro Flea Trap
Terro Fruit Fly Trap

Terro Indoor Fly trap
Terro Liquid Ant Bait
Terro Multi-Surface Liquid Ant Baits
Terro Outdoor Liquid Ant Bait Stakes
Tom Cat Attractant Gel
Tom Cat Mouse Trap
Tom Cat Rat Traps
Tom Cat Rodent Repellent
Treekote Aerosol Tree Wound
Uncle Ian's Dog & Cat Repellent
Uncle Ian's Mole, Gopher, Deer, & Squirrel Repellent
Victor Electric Mouse Trap
Victor Electric Rat Trap
Ferilizer Bays
Alaska Fish Fertilizer
Dr Earth Lawn Food
Dr. Earth Fertilizer
Earthworm Castings
Espoma Fertilizer
Espoma Organic Lime
Espoma Organic Soil Acidifier
First Saturday Lime Insect Repellent
Kellogg Organic Plus Fertilizer
Kellogg Organic Plus Lawn Fertilizer
Kellogg Organic Plus Fish & Kelp Fertilizer
Mater Magic
Miracle-Gro Fertilizer Spikes
Miracle-Gro Fertilizer Spikes Tree & Shrub
Miracle-Gro Performance Organics
Monterey Fish & Guano Fertilizer
Osmocote
Pennington Epson Salts
True Organic Fertilizer
True Organic Blood Meal
True Organic Bone Meal
Vigoro Fertilizer Spikes
Vigoro Tree & Shrub Fertilizer Spikes
Vigoro Fruit, Nut &Citrus Fertilizer Spikes
Victor Gopher Traps
Victor Mouse Traps
Victor Rat Traps
Victor Rat-A-Way Rat & Mouse Repellent
Victor Rodent Repeller Packs
Weed Block Landscaping Fabric
Weed Control Fabric
Zevo Ant, Roach & Spider
Zevo Fly, Gnat & Fruit Fly
Zevo Flying Insect Trap
Zevo Multi Insect
Zevo Wasp, Hornet, & Yellow Jacket

The ACE Hardware product list 2022:

Alaska Fish Fertilizer
Amdro Kills Ants Ant Killer
Answer Kills Roaches Powder
Bed Bug Traps
BioCare Codling Moth Traps
Bird Repellent Gel
Bird Scare Tape
Bird-B-Gone Flash Tape
Bird-B-Gone Steel Bird Spikes
Black Flag Roach Motel
Black Flag Window Fly Traps
Bonide All Seasons Spray Oil
Bonide Burnout
Bonide Captain Jack's Dead Bug Brew
Bonide Chipmunk, Squirrel, & Rodent Repellent
Bonide Copper Fungicide
Bonide Go Away! Rabbit, Dog, & Cat Repellent
Bonide Hot Pepper Wax Animal Repellent
Bonide Insecticidal Soap
Bonide Mole Max
Bonide Mosquito Beater
Bonide Mouse Magic
Bonide Neem Oil
Bonide Rat Magic
Bonide Repels All
Bonide Snake Stopper
Bonide Sulfur Fungicide
Bonide Tomato & Vegetable
Bonide Wilt Stop
Buggy Beds
Cloud Cover
Combat Ant Killing Bait
Combat Roach Killing Bait
Critter Ridder Sprinkler
Good Nature CO2 Rodent Trap
Gopher Baskets
Gopher Hawk
Gopher Scram
Gopher Traps
Harris 20% Vinegar Weed Killer
Harris Bed Bug Killer Diatomaceous Earth
Harris Boric Acid Roach Powder
De-Fence Deer & Rabbit Repellent
Deer Off Deer Repellent
Diatomaceous Earth
Dr. Earth Final Stop Disease Control Fungicide
Dr. Earth Final Stop Fruit Tree Insect Killer
Dr. Earth Final Stop Rose & Flower Insect Killer
Dr. Earth Final Stop Vegetable Insect Killer
Dr. Earth Final Stop Yard & Garden Insect Killer
Dr. Earth Organic Fertilizer
Drop in the Bucket Mouse Trap
E.B. Stone Organic Fertilizer
Earth's Ally Disease Control
Earth's Ally Insect Control
Earth's Ally Weed & Grass Killer
Earth's Ally Weed Killer
EcoSmart 3 in 1 Rose & Flower
EcoSmart Ant & Roach Killer
EcoSmart Flying Insect Killer
EcoSmart Garden Insect Killer
EcoSmart Home Pest Control
EcoSmart Insect Killer
EcoSmart Insect Killing Granules
EcoSmart Mosquito Fogger
EcoSmart Wasp & Hornet Killer
EcoSmart Weed & Grass Killer
Epsom Salts
Espoma Garden Lime
Espoma Organic Fertilizer
Espoma Organic Insect Soap
Espoma Soil Acidifier
Fly Paper
Fly Ribbon
Fly Stick
Fly Swatter
Fly Trap
Fresh Cab Rodent Repellent
Fruit Fly Trap
Giant Destroyer Garlic Repellent Clips Deer & Rabbit
Harris Diatomaceous Earth
Harris Famous Roach Tablets
Harris Neem Oil
Harris Roach Traps
Havahart Live Animal Cage Trap
Insect Sticky Traps
Jobe's Fertilizer Spikes
Jobe's Organic Fertilizer

Jobe's Organic Fertilizer Spikes
JT Eaton Kills Bed Bugs Powder
Liquid Fence Animal Repellent
Liquid Fence Deer & Rabbit
Liquid Fence Snake Repellent
Live Catch Mouse Trap
Messina's Animal Stopper
Messina's Deer Stopper
Messina's Rodent Stopper
Messina's Squirrel Stopper
Miracle Gro Performance Organics
Mole Trap
Mole X
Monterey 70% Neem Oil
Monterey Bt
Monterey Fish & Guano
Monterey Fruit Tree Spray Plus
Monterey Garden Insect Spray
Monterey Horticultural Oil
Monterey Liqui-Cop
Monterey Neem Oil
Monterey Take Down Garden Spray
Mosquito Bits
Mosquito Dunks
Moss Out! Roofs & Walks
Mouse Traps
Mouse X
Mouse Zero
Natria Grass & Weed Control
Natria Insect, Disease, & Mite Control
Natria Insecticidal Soap
Natria Neem Oil
Natria Rose & Flower
Natria Snail & Slug Killer Bait
Nature's Care Organic Fertilizer
Neem Oil
Orange Guard
Organocide Bee Safe 3 in 1 Garden Spray
Ortho 3 in 1 Insect, Mite, & Disease
Ortho Bed Bug Traps
Ortho Deer B Gon
Ortho GroundClear Weed & Grass
Ortho Home Defense Ant & Roach Killer w/ Essential Oils
Ortho Home Defense Crawling Bug Killer w/ Essential Oils
Ortho Home Defense Flying Bug Killer w/ Essential Oils
Ortho Insect Killer Tree & Shrub
Osmocote
Owl Garden Defense
Pulverize Weed & Grass Killer
Pulverize Weed Killer for Lawns
Pulverize Weed, Brush & Vine Killer
Raid Ant Baits III
Raid Essentials Ant & Roach
Raid Essentials Ant, Spider, & Roach
Raid Small Roach Baits
Rat Traps
Rat X
Rat Zero
Rescue Ant Baits
Rescue Fly Trap
Rescue Fly Trap Refill
Rescue Fly TrapStik
Rescue Pantry & Birdseed Moth Traps
Rescue WHY Trap
Rescue WHY Trap Refills
Rescue Yellowjacket Trap
Rescue Yellowjacket Trap Cartridge
Rescue Yellowjacket Trap Refill
Safer 3 in 1
Safer Ant & Crawling Insect Killer
Safer Caterpillar Killer
Safer Critter Ridder Animal Repellent
Safer Critter Ridder Deer & Rabbit
Safer Diatomaceous Earth
Safer End ALL
Safer Garden Dust
Safer Garden Fungicide
Safer Houseplant Sticky Stakes
Safer Insect Killing Soap
Safer Moss & Algae Killer
Safer Neem Oil
Safer Pantry Pest Trap
Safer Rose & Flower
Safer Snake Shield
Safer Tomato & Vegetable
Safer Yellowjacket & Wasp Attractant
Safer Yellowjacket & Wasp Trap
Scarecrow
Scott's Continuous Release Fertilizer
Scotts Moss EX
Scram for Cats
Sevin Sulfur Dust
Shake Away Rodent Repellent
Slug Trap
Sluggo
Sluggo Plus
Soil Moist
St. Gabriel Moss Killer

Stay Away Ants
Stay Away Mice
Stay Away Moths
Stay Away Spider
Tanglefoot
Terro Ant Killer Liquid
Terro Clothes Moth Alert
Terro Flea Trap
Terro Fly Magnet
Terro Fruit Fly Trap
Terro Indoor Fly Trap
Terro Liquid Ant Bait
Terro Moth Traps
Terro Multi-Purpose Insect Bait
Terro Multi-Surface Liquid Ant Bait
Terro Outdoor Liquid Ant Bait
Terro Roach Magnet
Terro Wasp & Fly Trap
Tom Cat Animal Repellent
Tom Cat Attractant Gel
Tom Cat Deer Repellent
Tom Cat Mouse Traps
Tom Cat Rat Traps
Tom Cat Rodent Repellent
Victor Black Box Gopher Trap
Victor Electronic Mouse Trap
Victor Electronic Rat Trap
Victor Fly Magnet
Victor Mole & Gopher Repellent
Victor Mole Trap
Victor Mouse Traps
Victor Mouse-A-Way Mouse Repellent
Victor Natural Rodent Repeller Packs
Victor Rat Traps
Victor Rat Zapper
Victor Rat-A-Way Rat & Mouse Repellent
Victor Tin Cat Mouse Trap
Whitney Farms Lawn Weed Killer
Whitney Farms Organic Fertilizer
Whitney Farms Weed & Grass Control
Window Fly Trap
Yard Enforcer Sprinkler

Report Summary Text File - Auto-generated by SMARTS on 10/06/2022 09:31:52

Name of Report: Central Coast Post-Construction Stormwater Requirements Annual Reporting 2021 - 2022 Annual

Certifier Name: Rose Hess
Certifier Title: Director of Public Works
Certifier Password Hash:
77ed326cf2b5934f9bbef417d907d58f228c0b246ec335f5e2cf05a210f3246d

Certifier User Account ID: 626600
Certification Computer IP: 198.143.34.16
Certification Executed On:
WARNING - Unable to Retrieve Certifier Details or Confirmation Number

2021-2022

Phase II Small MS4 Annual - Report

REPORTING PERIOD:07/01/2021 - 06/30/2022

WDID No: 3 42M2000150

Permittee Information

City of Buellton

Gilbert Wolfe

Scott@cityofbuellton.com

PO Box 1819

Buellton

CA

93427

Phase II Small MS4 Annual - Report - 2021-2022

Questions & Answers

Q No.	Text	DropDown Answer	CheckBoxAnswer	DescriptiveAnswer	Date Answer	Number Answer
1	Did the Permittee upload the Central Coast Post-Construction Stormwater Requirements annual reporting form and all other documents required in the form? Access form here. If the form does not open, right click on the hyperlink and chose the option, 'Save Target As'. To get full utilization of the form, the form must be viewed and completed using Adobe software. Adobe Reader can be downloaded for free.	Yes				

Phase II Small MS4 Annual - Report - 2021-2022

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualilfied personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that threre are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Rose Hess	**Title: Director of Public Works**	**Date: 10/06/2022**

Phase II Small MS4 Annual - Report - 2021-2022

ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
2021-2022-PEAIP Annual Summary-Buellton	2021-2022-PEAIP Annual Summary-Buellton	2022-09-22 21:33:45.0	Supporting Documentation	c67cbd2cb1b489b897a352c921f3f63e8912ad21d776e064df914231b303	1/1
2021-2022-PEAIP Annual Summary-Solvang	2021-2022-PEAIP Annual Summary-Solvang	2022-09-22 21:33:45.0	Supporting Documentation	24df7c60801775184a4308226c2d2dde145ad24b7e899fc275d3d5bea26eda	1/1
PCRs Annual Report [2021-2022]-Long-Term Operation and Maintenance-Buellton	PCRs Annual Report [2021-2022]-Long-Term Operation and Maintenance-Buellton	2022-09-22 21:33:45.0	Supporting Documentation	c7bf6d613c1e2c168ced456726b62a13d3d161eead124f840fddd47723a1724	1/1
PCRs Annual Report [2021-2022]-Long-Term Operation and Maintenance-Solvang	PCRs Annual Report [2021-2022]-Long-Term Operation and Maintenance-Solvang	2022-09-22 21:40:37.0	Supporting Documentation	671f58c654d7ce92552a5f4f1c7595f4e6d927461fce5c7db23bef0d8b5c20	1/1

Central Coast Post-Construction Stormwater Management Requirements (PCRs)

Resolution No. R3-2013-0032

Annual Reporting Form

August 2014 Version

Due Date: By October 15, 2014 and October 15 annually thereafter, Permittees must submit this reporting form.

Instructions: Complete form electronically. Answer questions and supply requested information for the Reporting Period only. Upload completed form to Storm Water Multiple Application and Report Tracking System (SMARTS) and name the file, "*PCRs Annual Report [insert reporting period]".* Also, upload requested attachments to SMARTS using specified nomenclature.

SECTION I: GENERAL PERMITTEE INFORMATION

WDID# and Permittee Name	3 42M2000150 - City of Buellton
County:	Santa Barbara

SECTION II: REPORTING PERIOD

Reporting Period:	7/1/2021 - 6/30/2022

SECTION III: COMPLETED PROJECTS

How many projects, that received occupancy completion documentation (e.g., Certificate of Occupancy) during the Reporting Period, created and/or replaced ≥ 2,500 square feet of impervious surface?	0

SECTION III: CONTINUED ...

Project categories based on created and/or replaced impervious surface area		Number of Projects in each category that received occupancy completion documentation (e.g., Certificate of Occupancy) during the Reporting Period and had an approval per PCRs Provision B.1.c
Lower Bound	**Upper Bound**	
≥ 2,500 square feet	<5,000 square feet Net Impervious Area (all projects except single-family homes) and <15,000 square feet Net Impervious Area (only single-family homes)	0
≥5,000 square feet Net Impervious Area (all projects except single-family homes) and ≥15,000 square feet Net Impervious Area (only single-family homes)	<15,000 square feet (all projects except single-family homes) and <15,000 square feet Net Impervious Area (only single-family homes)	0
≥15,000 square feet (all projects except single-family homes) and ≥15,000 square feet Net Impervious Area (only single-family homes)	<22,500 square feet	0
≥22,500 square feet	N/A	0
Total		0

SECTION IV: PROJECTS SUBJECT TO POST-CONSTRUCTION REQUIREMENTS

Performance Requirements*	Number of Projects subject to Performance Requirements that received completion documentation during the Reporting Period	Number of Projects with structural Water Quality Treatment, Runoff Retention, and/or Peak Management controls	Number of Projects where field verification of Site Design, Water Quality Treatment, Runoff Retention, and/or Peak Management controls was completed	Number of Projects where field verification confirmed ALL Site Design, Water Quality Treatment, Runoff Retention, and/or Peak Management controls were implemented in accordance with PCRs
Only No. 1	0	N/A		
Only Nos. 1 and 2		0		
Only Nos. 1, 2, and 3			0	
Only Nos. 1, 2, 3, and 4				0
Total	0	0	0	0

* Only include projects once in table. For example, if a project triggers all four performance requirements, only address that project in the, “Only Nos. 1, 2, 3, and 4” row. Do not also count the project in the cells for the above three rows.

SECTION V: SPECIAL CIRCUMSTANCES AND ALTERNATIVE COMPLIANCE

Note: If the Permittee did not grant any Special Circumstances and/or Alternative Compliance for Projects that received completion documentation during the Reporting Period, skip Section V.

To add another Project, click 'Add Row'

Add Row | Delete Row

	Alternative Compliance type (Select all that apply)								
Names of Projects that received completion documentation during the Reporting Period and the Permittee granted Special Circumstances and/or Alternative Compliance	Watershed or Regional Plan	Urban Sustainability Area	Highly Altered Channel Special Circumstance	Intermediate Flow Control Facility Special Circumstance	Historic Lake or Wetland Special Circumstance	Technical Infeasibility Performance Requirement No. 2	Technical Infeasibility Performance Requirement No. 3	Technical Infeasibility Performance Requirement No. 4	**If technical infeasibility is rationale for Alternative Compliance, does Project's Stormwater Control Plan adequately demonstrate basis for infeasibility?**
0	☐	☐	☐	☐	☐	☐	☐	☐	N/A

SECTION V: CONTINUED ...

To add another Project, click 'Add Row'

Add Row | Delete Row

	Alternative Compliance type (Select all that apply)								
Names of Projects that received completion documentation during the Reporting Period and the Permittee granted Special Circumstances and/or Alternative Compliance	Watershed or Regional Plan	Urban Sustainability Area	Highly Altered Channel Special Circumstance	Intermediate Flow Control Facility Special Circumstance	Historic Lake or Wetland Special Circumstance	Technical Infeasibility Performance Requirement No. 2	Technical Infeasibility Performance Requirement No. 3	Technical Infeasibility Performance Requirement No. 4	**If technical infeasibility is rationale for Alternative Compliance, does Project's Stormwater Control Plan adequately demonstrate basis for infeasibility?**
0	☐	☐	☐	☐	☐	☐	☐	☐	N/A

SECTION VI: MITIGATION PROJECTS CONSTRUCTED FOR ALTERNATIVE COMPLIANCE

Were there any mitigation projects constructed for Alternative Compliance during the Reporting Period? ○ Yes ◉ No

If yes, did the Permittee upload to SMARTS the below information?

- A summary description of mitigation projects constructed during the Reporting Period comparing the expected aggregate results of Alternative Compliance projects to the results that would otherwise have been achieved by meeting the numeric Performance Requirements on-site. The summary should quantitatively compare results. For example, if the Alternative Compliance project is mitigating for a project that could not fully meet Performance Requirement No. 3 onsite, then the summary should quantify the following: 1) onsite retention volume required by Performance Requirement No. 3, 2) volume of runoff actually retained on site, and 3) volume of runoff retained at the Alternative Compliance project site.
- For public offsite mitigation projects, a summation of total offsite mitigation funds raised to date and a description (including location, general design concept, volume of water expected to be retained, and total estimated budget) of all pending public offsite mitigation projects

SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Mitigation Projects"*

SECTION VII: LONG-TERM OPERATION AND MAINTENANCE

Did the Permittee upload to SMARTS a copy (e.g., screenshot) of the structural Stormwater Control Measure Operation and Maintenance database that shows all entries from the Reporting Period (see PCRs Provision E.3)? ◉ Yes ○ No

SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Long-Term Operation and Maintenance*"

SECTION VIII: ADDITIONAL UPLOADS

Did the Permittee upload to SMARTS information to demonstrate Performance Requirement No. 1 was applied to all applicable projects during the Reporting Period (including sample checklist)? ○ Yes ◉ No

SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Performance Req No1 Implementation"*

Central Coast Post-Construction Stormwater Management Requirements (PCRs)

Resolution No. R3-2013-0032
Annual Reporting Form
August 2014 Version

Due Date: By October 15, 2014 and October 15 annually thereafter, Permittees must submit this reporting form.

Instructions: Complete form electronically. Answer questions and supply requested information for the Reporting Period only. Upload completed form to Storm Water Multiple Application and Report Tracking System (SMARTS) and name the file, "*PCRs Annual Report [insert reporting period]".* Also, upload requested attachments to SMARTS using specified nomenclature.

SECTION I: GENERAL PERMITTEE INFORMATION

WDID# and Permittee Name	3 42M2000036 - City of Solvang
County:	Santa Barbara

SECTION II: REPORTING PERIOD

Reporting Period:	7/1/2021 - 6/30/2022

SECTION III: COMPLETED PROJECTS

How many projects, that received occupancy completion documentation (e.g., Certificate of Occupancy) during the Reporting Period, created and/or replaced ≥ 2,500 square feet of impervious surface?	0

SECTION III: CONTINUED ...

Project categories based on created and/or replaced impervious surface area		Number of Projects in each category that received occupancy completion documentation (e.g., Certificate of Occupancy) during the Reporting Period and had an approval per PCRs Provision B.1.c
Lower Bound	**Upper Bound**	
≥ 2,500 square feet	<5,000 square feet Net Impervious Area (all projects except single-family homes) and <15,000 square feet Net Impervious Area (only single-family homes)	0
≥5,000 square feet Net Impervious Area (all projects except single-family homes) and ≥15,000 square feet Net Impervious Area (only single-family homes)	<15,000 square feet (all projects except single-family homes) and <15,000 square feet Net Impervious Area (only single-family homes)	0
≥15,000 square feet (all projects except single-family homes) and ≥15,000 square feet Net Impervious Area (only single-family homes)	<22,500 square feet	0
≥22,500 square feet	N/A	0
Total		0

SECTION IV: PROJECTS SUBJECT TO POST-CONSTRUCTION REQUIREMENTS

Performance Requirements*	Number of Projects subject to Performance Requirements that received completion documentation during the Reporting Period	Number of Projects with structural Water Quality Treatment, Runoff Retention, and/or Peak Management controls	Number of Projects where field verification of Site Design, Water Quality Treatment, Runoff Retention, and/or Peak Management controls was completed	Number of Projects where field verification confirmed ALL Site Design, Water Quality Treatment, Runoff Retention, and/or Peak Management controls were implemented in accordance with PCRs
Only No. 1	0	N/A	0	0
Only Nos. 1 and 2	0	0	0	0
Only Nos. 1, 2, and 3	0	0	0	0
Only Nos. 1, 2, 3, and 4	0	0	0	0
Total	0	0	0	0

* Only include projects once in table. For example, if a project triggers all four performance requirements, only address that project in the, “Only Nos. 1, 2, 3, and 4” row. Do not also count the project in the cells for the above three rows.

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Add Row | Delete Row

	Alternative Compliance type (Select all that apply)								
Names of Projects that received completion documentation during the Reporting Period and the Permittee granted Special Circumstances and/or Alternative Compliance	Watershed or Regional Plan	Urban Sustainability Area	Highly Altered Channel Special Circumstance	Intermediate Flow Control Facility Special Circumstance	Historic Lake or Wetland Special Circumstance	Technical Infeasibility Performance Requirement No. 2	Technical Infeasibility Performance Requirement No. 3	Technical Infeasibility Performance Requirement No. 4	**If technical infeasibility is rationale for Alternative Compliance, does Project's Stormwater Control Plan adequately demonstrate basis for infeasibility?**
	☐	☐	☐	☐	☐	☐	☐	☐	N/A

SECTION V: CONTINUED ...

To add another Project, click 'Add Row'

Add Row | Delete Row

	Alternative Compliance type (Select all that apply)								
Names of Projects that received completion documentation during the Reporting Period and the Permittee granted Special Circumstances and/or Alternative Compliance	Watershed or Regional Plan	Urban Sustainability Area	Highly Altered Channel Special Circumstance	Intermediate Flow Control Facility Special Circumstance	Historic Lake or Wetland Special Circumstance	Technical Infeasibility Performance Requirement No. 2	Technical Infeasibility Performance Requirement No. 3	Technical Infeasibility Performance Requirement No. 4	**If technical infeasibility is rationale for Alternative Compliance, does Project's Stormwater Control Plan adequately demonstrate basis for infeasibility?**
	☐	☐	☐	☐	☐	☐	☐	☐	N/A

SECTION VI: MITIGATION PROJECTS CONSTRUCTED FOR ALTERNATIVE COMPLIANCE

Were there any mitigation projects constructed for Alternative Compliance during the Reporting Period? ○ Yes ◉ No

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- A summary description of mitigation projects constructed during the Reporting Period comparing the expected aggregate results of Alternative Compliance projects to the results that would otherwise have been achieved by meeting the numeric Performance Requirements on-site. The summary should quantitatively compare results. For example, if the Alternative Compliance project is mitigating for a project that could not fully meet Performance Requirement No. 3 onsite, then the summary should quantify the following: 1) onsite retention volume required by Performance Requirement No. 3, 2) volume of runoff actually retained on site, and 3) volume of runoff retained at the Alternative Compliance project site.
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SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Mitigation Projects"*

SECTION VII: LONG-TERM OPERATION AND MAINTENANCE

Did the Permittee upload to SMARTS a copy (e.g., screenshot) of the structural Stormwater Control Measure Operation and Maintenance database that shows all entries from the Reporting Period (see PCRs Provision E.3)? ◉ Yes ○ No

SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Long-Term Operation and Maintenance*"

SECTION VIII: ADDITIONAL UPLOADS

Did the Permittee upload to SMARTS information to demonstrate Performance Requirement No. 1 was applied to all applicable projects during the Reporting Period (including sample checklist)? ○ Yes ◉ No

SMARTS upload title: "*PCRs Annual Report [insert reporting period] – Performance Req No1 Implementation"*

CITY OF BUELLTON
POST-CONSTRUCTION MANAGEMENT REQUIREMENTS FOR DEVELOPMENT PROJECTS IN THE CENTRAL COAST REGION
RESOLUTION NO. R3-2013-0032
Section E Operation and Maintenance for Structural Stormwater Control Measures (SCM)

Project Name	Project Number (City # / MNS # / TetraTech #)	Project Address / Location	SCM ID Number	SCM Type (List Applicable Codes*)	SCM Description (Drainage Management Area [DMA] #)	Completion Date (MM/DD/YY)				O&M Location (physical and/or electronic)	O&M Responsible Party		O&M Funding Source	O&M Maintenance Verification	Problems Identified During Inspection (including Vector or Nuisance Problems)
						Construction	PCR Field Verification	Final Project Approval / Occupancy	Operations & Maintenance (O&M) Plan Approval	Plan/Agreement	Name	Phone Number			
Hampton Inn	14-FDP-01 / CIBUE.140183.00	600 McMurrary Road, Buellton, CA 93427	PR4: Peak Management	SDRR2,SDRR3, WQT2, RR1, RR8, RR9, PM1	**(1) Direct Infiltration -** Retention/Detention Basin (SCM-1) **DMAs Drain to SCM** Concrete or Asphalt (IMP-1-Overflow, IMP-4, IMP-6, IMP-7) Roof (Roof-1, Roof-2, Roof-3, Roof-4, Roof-5, Roof-6, Roof-7) **(2) Self-Treating Areas -** Landscape Area (LS-1, LS-2, LS-3, LS-4, LS-5, LS-6, LS-7, LS-8, LS-9, LS-10, LS-11, LS-12, LS-13, LS-14, LS-15, LS-16, LS-17, LS-18, LS-19, LS-20) **(3) Self-Retaining Areas -** Landscape Area (DMA SR-1, DMA SR-2, DMA SR 3, DMA SR-4, DMA SR-5) **DMAs Drain to Self-Retaining Areas** Concrete or Asphalt (IMP-1 to SR1, IMP-2 to SR-1, IMP-3 to SR-4, IMP-5 to SR-3, IMP-8 to SR-1)	5/4/18	Initial 8/17/17; Follow-up: 4/9/18, 4/25/18, 5/18/18	6/16/17	7/28/16	Plan: Hard Copy-MNS Engineer Project File & Electronic Copy -MNS Engineer Electronic File and City of Buellton PWD Electronic File	James Flagg, Ocean Park Hotel BLT LLC	(805) 544-0800	Private		No
Tilton Engineering	14-FDP-04 / CIBUE.150087	890 McMurray Road, Buellton, CA 93427	PR4: Peak Management	SDRR2, SDRR4, WQT1, RR1, RR8, RR9, PM1	**(1) Direct Infiltration -** Stormtech Chamber MC-3500 (Underground Storage 1 & 2) **DMAs Drain to SCM** Concrete and Asphalt (Parking South, Parking North, Sidewalk South, Sidewalk North) Crushed Aggregate (Gravel South, Gravel North, Existing Concrete) **(2) Self-Retaining Areas -** Landscape Area (Landscape 12, Landscape 13, Landscape 14, Landscape 15, Landscape 16, Landscape 17) **DMAs Drain to Self-Retaining Areas** Concrete or Asphalt (Sidewalk Corner to Landscape 12, Sidewalk West to Landscape 14)	11/2/16	11/28/16	12/28/16	8/31/16	Plan: Hard Copy-MNS Engineer Project File & Electronic Copy -MNS Engineer Electronic File and City of Buellton PWD Electronic File	Todd Cooper-Tilton Engineering, Inc.	(805) 688-2353	Private	10/31/17, 3/6/19	No
Fig Mountain Brewery Expanison	CIBU.160366	73/75 Industrail Way, Buellton, CA 93427	PR4: Peak Management	SSD2, WQT1, RR1, RR4-RR9, PM1	**(1) Direct Infiltration -** Stormtech Chamber MC-4500 (SCM-1 Underground Storage) **DMAs Drain to SCM** Concrete or Asphalt (P-1, P-2, P-3, TS-2, TS-3, TS-4, CONC 1, CONC 2, L-2) Landscape Area (L-4, L-5) Roof (BLD 1 East Half, BLD West Half and BLD 2 West Half) **(2) Self-Treating Area -** Landscape Area (L-1, L-3, L-6, L-7, L-8, BLD East Half) **(3) Self-Retaining Area -** Crushed Aggregate (Beer 2) Landscape Area (L-15)					Plan: Hard Copy-MNS/Terravant Engineer Project File & Electronic Copy -MNS Engineer Electronic File and City of Buellton PWD Electronic File	Jamie Dientenhofer	(805) 694-2252	Private		
270 Industrial Way	80000 / 200-155059-17001-07	270 IndustrialWay, Buellton, CA 93427	PR2: Water Quality Treatment	WQT1, RR1, RR4-RR9, PM1	**(1) Direct Infiltration -** Stormtech Chamber SC-160 (Underground Storage 1 & 2) **DMAs Drain to SCM** Concrete and Asphalt (AC P-1, ACP-2, ACP-3, C-2, C-3 & C-4) **(2) Self-Treating Areas -** Landscape Area (L-2 & L-3)	9/27/18	5/20/18 and 9/27/18	10/29/18	10/29/18	Plan: Hard Copy-Tetratech Engineer Project File & Electronic Copy - Teratech Engineer Electronic File and City of Buellton PWD Electronic File	John Peterson	(805) 331-5932	Private	4/20/20	No
~~Buellton 5 Acre Building (aka The Network)~~	~~90044 / 155059-1701-08~~	~~Industrial Way, Buellton, CA 93427~~	~~PR4: Peak Management~~	~~SDRR2, WQT1 RR1, RR8, RR9, PM1~~	~~**(1) Direct Infiltration** - Existing Detention Basin (SCM-1)~~ ~~**DMA's Drain to SCM**~~ ~~Concrete and Asphalt (DMA-1, DMA-5, DMA-12, DMA-27)~~ ~~Roof (DMA-6, DMA-7, DMA-8, DMA-9, DMA-11)~~ ~~**(2) Self-Retaining**~~ ~~Landscaping Area (DMA-2, DMA-3, DMA-4, DMA-10, DMA-13, DMA-14, DMA-15, DMA-16, DMA-17, DMA-18, DMA-19, DMA-20, DMA-21, DMA-22, DMA-23, DMA-24, DMA-25, DMA-26, DMA-28)~~					~~Plan: Hard Copy-Tetratech Engineer Project File & Electronic Copy - Teratech Engineer Electronic File and City of Buellton PWD Electronic File~~	~~Gavin Moores~~	~~(805) 692-2006~~	~~Private~~		

***SCM Type Code**	SDRR1: Direct roof runoff into cisterns or rain barrels for reuse SDRR2: Direct roof runoff onto vegetation areas SDRR3: Direct runoff from sidewalks, walkways and/or patios onto vegetated areas SDRR4: Direct runoff from driveways and/or uncovered parking lots, onto vegetated areas SDRR5: Construct bike lanes, driveways, uncovered parking lots, sidewalks, walkways and patios with permeable surfaces WQT1: LID Treatment System - Harvesting and Use, Infiltration and Evapotranspiration SCM w/Hydraulic Sizing Criteria (Retain Stormwater Runoff- 85 percentile 24-hour storm event based on local rainfall data) WQT2: Biofiltration Treatment System (Treat Storm Water Runoff - 0.2 inches/hour intensity or 2 X's 85 percentile hourly rainfall for the applicable area, based on historical records of hourly rainfall depth) WQT3a: Non-Retention Treatment Systems w/Hydraulic Sizing Criteria - Volume Hydraulic Design Basis (Treat Stormwater Runoff - 85 percentile 24-hour storm event, based on local rainfall data) WQT3b: Non-Retention Treatment Systems w/Hydraulic Sizing Criteria - Flow Hydraulic Design Basis (Treat Storm Water Runoff - 0.2 inches/hour intensity or 2 X's 85 percentile hourly rainfall for the applicable area, based on historical records of hourly rainfall depth) RR1: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Storage RR2: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Rainfall Harvesting RR3: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Evapotranspiration RR4: LID - Site Assessment Measures RR5: LID - Site Design Measures RR6: LID - Delineation of discrete Drainage Management Areas RR7: LID - Undisturbed and Natural Landscape Areas RR8: LID: Structural Stormwater Control Measures RR9: Hydrologic Analysis and Structural Control Measuring Sizing PM1: Post-development peak flows, discharge from the site, shall not exceed pre-project peak flows for the 2-10 year storm events.

CITY OF SOLVANG
POST-CONSTRUCTION MANAGEMENT REQUIREMENTS FOR DEVELOPMENT PROJECTS IN THE CENTRAL COAST REGION
RESOLUTION NO. R3-2013-0032
Section E Operation and Maintenance for Structural SCM
Reporting Year 2021 - 2022

Project Name	Project Number (City #)	Project Address / Location	PCR Category	SCM Type (List Applicable Codes*)	SCM Identification and Description	Completion Date (MM/DD/YY)				O&M Location (physical and/or electronic)	O&M Responsible Party		O&M Funding Source	O&M Maintenance Verification	Problems Identified During Inspection (including Vector or Nuisance Problems)
						Construction	PCR Field Verification	Final Project Approval / Occupancy	O&M Plan Approval	Plan/Agreement	Name	Phone Number			
The Merkantile	PW 083	1980-1992 Old Mission Road, Solvang, CA 93463	PR4: Peak Management	SDRR2, SDRR4, SDRR5, WQT1, RR1, RR4-RR6, RR8-RR9, PM1	**(1) Bioretention Basin** (SCM 34) **(2) Direct Infiltration** Permeable Pavement (SCM 46, SCM 47, SCM 48, SCM 49, SCM 50, SCM 51, SCM 52) **DMAs Drain to SCM** Roof (DMA 1, 10 to SCM 47, DMA 2, 9, 20 to SCM 52, DMA 3, 4, 8, 19, 28, 29 to SCM 34, DMA 5, 7, 21, 22 to SCM 46, DMA 6, 23, 26, 27 to SCM 51, DMA 11, 12 to SCM 48, DMA 13, 14, 15, 16 to SCM 49, DMA 17, 18 to SCM 50); Concrete or Asphalt (DMA 9 to SCM 52, DMA 10 to SCM 47, DMA 11-12 to SCM 48, DMA 12 to SCM 48); Pervious Concrete (DMA 46 to SCM 46, DMA 52 to SCM 52) Porous Asphalt (DMA 47 to SCM 47, DMA 48 to SCM 48, DMA 49 to SCM 49, DMA 50 to SCM 50, DMA 51 to SCM 51) **(3) Self-Treating Areas -** Landscape Area (DMA 30, DMA 32, DMA 33, DMA 40, DMA 41, DMA 42, DMA 43, DMA 44, DMA 45) **(4) Self-Retaining Areas -** Landscape Area (DMA 31, DMA 34, DMA 35, DMA 36, DMA 37, DMA 38, DMA 39) **DMAs Drain to Self-Retaining Area** Concrete Asphalt (DMA 24 to DMA 38, DMA 25 to DMA 39)	7/10/20	6/24/20	8/30/20	3/30/20	Refer to SWCP	Joshua Richman	(805) 350-1791	Private	Yes	
170192 Ken & Jackie Gruendyke	N/A	1514 Kronborg Drive Solvang, CA 93463	PR1: Site Design and Runoff Reduction	SDRR2	N/A	1/4/18	1/4/18	N/A	N/A - Tier 1 Project	N/A - Tier 1 Project	Ken & Jackie Gruendyke	(805) 688-8183	Private	N/A	
CIP - Pickleball Court	PW 160	Hans Christian Anderson Park	PR1: Site Design and Runoff Reduction	SDRR3	N/A	4/30/21	5/10/21	N/A	N/A - Tier 1 Project	N/A - Tier 1 Project	City of Solvang	(805) 688-5575	City	N/A	
1731/1735 Laurel Avenue	PW 134	1731/1735 Laurel Avenue, Solvang, CA 93463	PR2: Water Quality Treatment	SDRR2, SDRR3, SDRR4, WQT1	**(1) Direct Infiltration** - Subsurface Infiltration Storage Basin (SCM 1-B, SCM 2-B, SCM 3-B) **(4) Self-Retaining Areas** (1-SR) **(5) Self-Retaining Areas** (2-SR) **(6) Self-Retaining Areas** (3-SR) **(7) Self-Retaining Areas** (4-SR)				7/12/21	MNS Electronic File	Jake Rodriguez	(307) 200-9242	Private		
539 Alisal Road	PW 114	539 Alisal Road, Solvang, CA 93463	PR2: Water Quality Treatment	SDRR1, SDRR2, SDRR4, SDRR5, WQT2	**(1) Bioretention Basin** (SCM- 1) **DMAs Drain to SCM** Roof (DMA1), Concrete/Asphalt (DMA 3 and DMA 4) **(2) Bioretention Basin** (SCM-2) **DMAs Drain to SCM** Roof (DMA 2), Concrete/Asphalt (DMA 5) **(3) Self-Retaining Areas** - Pervious Pavers (DMA 6) **(4) Self-Treating Areas** - Landscape Areas (DMA 7, DMA 8, DMA 9)				8/9/21	MNS Electronic File	Jake Rodriguez	(307) 200-9242	Private		
Solvang Festival Theaterfest	PW 162	433 Second Street Solvang, CA 93463	PR1: Site Design and Runoff Reduction	SDRR5	**(1) Direct Infiltration** - Permable Pavement				N/A - Tier 1 Project	N/A - Tier 1 Project	Solvang Festival Theater (Executive Director)	(805) 686-1789	Private	N/A	
670 Alamo Pintado Rd	PW 168	670 Alamo Pintado Road, Solvang, CA 93463	PR4: Peak Management	SDRR2, SDRR3, SDRR5, WQT1, WQT2, RR5-RR6, RR8-RR9, PM1	**(1) Direct Infiltration** - Subsurface Storage Chambers-Stormtech Chambers MC-3500 (SCM 1) **DMAs Drain to SCM** Concrete (DMA 1, DMA 11) **(2) Bioretention Basin** (SCM- 2) **DMAs Drain to SCM** Concrete (DMA 1, DMA 8), Roof (DMA 13) **(3) Bioretention Basin** (SCM- 3) **DMAs Drain to SCM** Roof (DMA 21) **(4) Bioretention Basin** (SCM- 4) **DMAs Drain to SCM** Roof (DMA 22), Concrete (DMA 26) **(5) Bioretention Basin** (SCM- 5) **DMAs Drain to SCM** Roof (DMA-23)Concrete (DMA 27) **(6) Bioretention Basin** (SCM-6) **DMAs Drain to SCM** Roof (DMA 24), Concrete (DMA 28) **(7) Bioretention Basin** (SCM-7) **DMAs Drain to SCM** Roof (DMA 25) Concrete (DMA 29) **(8) Self-Retaining Areas** - Pervious Pavers (DMA 2, DMA 6, DMA 10, DMA 16, DMA 17, DMA 18, DMA 19, DMA 20); Landscape Areas (DMA 31, DMA 33) **DMAs Drain to Self-Retaining Areas** Concrete (DMA 30 Drains to DMA 31; and DMA 32 Drains to DMA 33) **(9) Self-Treating Areas** - Landscape Areas (DMA 5, DMA 7, DMA 9, DMA 12, DMA 14, DMA 15, DMA 34)						Darkstar Development, LLC Erik Vasquez	(805)275-1711	Private		
1546 Copenhagen Driv -3 Vacation Rentals	GP21-005 / PW 175	1546 Copenhagen Drive, Solvang, CA 93463	PR1: Site Design and Runoff Reduction	SDRR2, SDRR4 WQT2	(1) **Bioretention Basin**				N/A - Tier 1 Project	N/A - Tier 1 Project	Jake Rodriguez	(307) 200-9242	Private	N/A	

***SCM Type Code**

SDRR1: Direct roof runoff into cisterns or rain barrels for reuse
SDRR2: Direct roof runoff onto vegetation areas
SDRR3: Direct runoff from sidewalks, walkways and/or patios onto vegetated areas
SDRR4: Direct runoff from driveways and/or uncovered parking lots, onto vegetated areas
SDRR5: Construct bike lanes, driveways, uncovered parking lots, sidewalks, walkways and patios with permeable surfaces
WQT1: LID Treatment System - Harvesting and Use, Infiltration and Evapotranspiration SCM w/Hydraulic Sizing Criteria (Retain Stormwater Runoff- 85 percentile 24-hour storm event based on local rainfall data)
WQT2: Biofiltration Treatment System (Treat Storm Water Runoff - 0.2 inches/hour intensity or 2 X's 85 percentile hourly rainfall for the applicable area, based on historical records of hourly rainfall depth)
WQT3a: Non-Retention Treatment Systems w/Hydraulic Sizing Criteria - Volume Hydraulic Design Basis (Treat Stormwater Runoff - 85 percentile 24-hour storm event, based on local rainfall data)
WQT3b: Non-Retention Treatment Systems w/Hydraulic Sizing Criteria - Flow Hydraulic Design Basis (Treat Storm Water Runoff - 0.2 inches/hour intensity or 2 X's 85 percentile hourly rainfall for the applicable area, based on historical records of hourly rainfall depth)
RR1: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Storage
RR2: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Rainfall Harvesting
RR3: Retain 95th Percentile Rainfall Event - Optimizing Infiltration via Evapotranspiration
RR4: LID - Site Assessment Measures
RR5: LID - Site Design Measures
RR6: LID - Delineation of discrete Drainage Management Areas
RR7: LID - Undisturbed and Natural Landscape Areas
RR8: LID: Structural Stormwater Control Measures
RR9: Hydrologic Analysis and Structural Control Measuring Sizing

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Name of Report: Central Coast Post-Construction Stormwater Requirements Annual Reporting 2021 - 2022 Annual

Certifier Name: Rose Hess
Certifier Title: Director of Public Works
Certifier Password Hash:
77ed326cf2b5934f9bbef417d907d58f228c0b246ec335f5e2cf05a210f3246d

Certifier User Account ID: 626600
Certification Computer IP: 198.143.34.16
Certification Executed On:
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