2022-2023

Phase II Small MS4 Annual - Report

REPORTING PERIOD:07/01/2022 - 06/30/2023

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Permittee Information

City of Buellton

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Phase II Small MS4 Annual - Report - 2022-2023

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 1-10) (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 1-10) 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 4-10) 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 3-10) 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 4-10) 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 2-10) 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 4-10) 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 3-10) 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 2-10) If 'NA', please provide a brief explanation.	Yes				
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 2-10) 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 2-10) 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 2-10) 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 3-10) 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 2-10) 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 2-10) If tailored parameter action levels, attach justification and modifications to parameter action levels. If 'No', please provide a brief explanation.	Yes		Yes - Buellton. Yes - Solvang. The City of Solvang does 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 2-10) If 'No', please provide a brief explanation.	NA		NA - Buellton. Based on previous discussions with the Central Coast Regional Water Quality Control Board, City of Buellton did not conduct any additional follow-up investigations. The local geology can contribute to the exceedances of specific conductivity and are most likely background levels. 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 2-10) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. NA - Solvang. The City of Solvang 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 2-10) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. NA - Solvang. The City of Solvang did not have any non-stormwater discharges suspected of being sanitary sewage and/or significantly contaminated.		
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 2-10) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. NA - Solvang. The City of Solvang 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 2-10) 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 2-10) 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 2-10) 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 1-10) 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 2-10) 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 2-10) 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 2-10) 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 2-10) 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 2-10) 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 2-10) 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 5-10) If 'No', please provide a brief explanation.	NA		NA - Buellton. The City of Buellton conducted quarterly inspections at the WWTP; however, per hotspot rating criteria, the facility is no longer a hotspot and does not have a Hotspot SWPPP. 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 5-10) If 'No', please provide a brief explanation.	NA		NA - Buellton. The City of Buellton conducted quarterly inspections at the WWTP; however, per hotspot rating criteria, the facility is no longer a hotspot and does not have a Hotspot SWPPP. 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 5-10) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. A comprehensive hotspot inspection is performed quarterly at the WWTP; however, per hotspot rating criteria, the facility is no longer a hotspot and does not have a Hotspot SWPPP. Yes - Solvang.		
52	Inspected each inventoried facility that is not a hotspot once during permit term? (E.11.e(ii)(d)) (Years 5-10) 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 4-10) 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 4-10) 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 3-10) 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 3-10) 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 4-10) If 'No', please provide a brief explanation.	Yes		Yes - Buellton. N/A - Solvang. The City did 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 4-10) 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 3-10) 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 4-10) If 'No', please provide a brief explanation.	Yes				
64	Evaluated all BMPs implemented during O&M activities quarterly? (E.11.h(ii)(d)) (Years 3-10) If 'No', please provide a brief explanation.	No		Yes - Buellton. No - Solvang. The O&M activities assessment program was implemented during Year 10. 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 4-10) If 'No', please provide a brief explanation.	NA		NA - 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 2-10) 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 2-10) If 'No', please provide a brief explanation.	Yes				

69	Implemented educational activities for municipal applicators and distributors? (E.11.j(ii)(b)(1)) (Years 2-10) 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 2-10) 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 2-10) 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 2-10) 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 2-10) 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.l of permit? (E.12.a) (Years 2-10) 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 2-10) 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 2-10) 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 2-10) 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 2-10) 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 4-10) 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 3-10) 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 2-10) 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 3-10) 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 4-10) 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 2-10) 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 Cities 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 1-10)	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 1-10)	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 3-10) 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 3-10) 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 3-10) {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 1-10) {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 1-10)			Refer to attached 2022-2023 CASQA OWOW Annual Summary Report (August 2023) and 2023 OWOW Santa Barbara Report.		

Phase II Small MS4 Annual - Report - 2022-2023

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: 10/13/2023**

Phase II Small MS4 Annual - Report - 2022-2023

ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
2022-2023 303(d) Monitoring Program Results	2022-2023 303(d) Monitoring Program Results	2023-09-08 09:21:38.0	Supporting Documentation	8eca7886c0f7ccf6c84188c0695154bede479662c58046fa476832c7b11e9	1/1
2022-2023 PEAIP Annual Summary-Buellton	2022-2023 PEAIP Annual Summary-Buellton	2023-10-13 09:33:30.0	Supporting Documentation	84bb366db1a4ceeb1b6dbfe338ed736cc73feb16e9cab70a447741ff3a632c4	1/1
2022-2023 PEAIP Annual Summary-Solvang	2022-2023 PEAIP Annual Summary-Solvang	2023-10-04 10:50:54.0	Supporting Documentation	ce6750d167908f6136da48c8caa84f4a83fcfa4b8117bd36c3c510de8a2cf2	1/1
2022-2023 CASQA OWOW Annual Summary Report	2022-2023 CASQA OWOW Annual Summary Report	2023-09-08 09:27:53.0	Supporting Documentation	6037601a5345ce4f37f5751933775b659cb040295d1edcbb24b38f64bbbc6f49	1/1
2023 OWOW Santa Barbara Report	2023 OWOW Santa Barbara Report	2023-10-06 12:08:24.0	Supporting Documentation	baaa541dddf25897df4e98b994401f5d833b993b9a6f37e886229ebb26c858	1/1

County of Santa Barbara Public Works Department
Project Clean Water
123 E. Anapamu Street, Suite 27, Santa Barbara, CA 93101
(805) 568-3440 FAX (805) 568-3434
www.sbprojectcleanwater.org

SCOTT D. MCGOLPIN
Director

WALTER RUBALCAVA
Deputy Director

Memorandum

Date: June 30, 2023

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

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

Subject: Transmittal of 303(d) Monitoring Program Results, 2022-2023

The following summary and supporting documents describe implementation of the eighth year of the 303(d) Monitoring Program.

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*, which was approved by the Central Coast Regional Water Quality Control Board in their letter dated March 4, 2016. This program provides information used to meet 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 this 2022-2023 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.

Monitoring activities are conducting 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.

Summary

During the reporting period of Jul 1, 2022 – Jun 30, 2023, five wet weather events were monitored.

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
11/8/22	2.81	Buellton	Industrial
11/8/22	1.30	Solvang	Residential
11/8/22	0.92	Goleta	Commercial
11/8/22	0.92	Goleta	Industrial
1/9/23	6.04	Buellton	Industrial
1/9/23	6.84	Solvang	Residential
2/24/23	4.63	Buellton	Industrial
2/24/23	3.61	Goleta	Commercial
2/24/23	3.61	Goleta	Industrial
2/24/23	3.37	Carpinteria	Urban Agriculture
3/14/23	3.23	Goleta	Commercial
3/14/23	3.23	Goleta	Industrial
3/21/23	1.53	Carpinteria	Urban Agriculture

The *Sampling Log* provided in Attachment 1 describes the storm events tracked throughout the year. The monitoring results are provided in Attachment 2. Note, numeric thresholds or standards do not exist for many of the parameters analyzed and those that do have comparative benchmark, criteria, or Central Coast Basin Plan objectives, are provided 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])
Buellton Industrial (1,500 ug/L)
Goleta Commercial (1,200 ug/L)
Goleta Industrial (1,600 ug/L, 1,700 ug/L)
Solvang Residential (1,800 ug/L)

Natural sources of aluminum may include soil and geologic erosion. Possible anthropogenic sources of aluminum are galvanized metal surfaces (roofing, gutters, fences, etc.), automotive parts, and aluminum foil.

Dissolved Copper (10 ug/L)
Goleta Commercial (12 ug/L in November 2022 and February 2023)
Goleta Industrial (14 ug/L)

Natural sources of copper may include soil and geologic erosion. Anthropogenic sources may include pesticides and herbicides, brake pads, vehicle parts, roofing, and metal plating.

Cyfluthrin (12.5 nanograms per liter [ng/L])
Goleta Commercial (33 ng/L)

Cyfluthrin is contained in pyrethroid insecticides. Sources may include pest-control products used by homeowners, and farm and commercial applicators.

L-Cyhalothrin (3.5 ng/L)
Carpinteria Urban Agriculture (5.3 ng/L)

L-Cyhalothrin is contained in pyrethroid insecticides. Sources may include pest-control products used by homeowners and commercial farm operators.

Malathion (100 ng/L)
Goleta Commercial (320 ng/L)

Malathion is an organophosphate insecticide. Sources may include homeowners, and farm and commercial applicators for vector control and fruit fly eradication programs.

Total Nitrogen (0.38 milligrams per liter [mg/L])
Buellton Industrial (1.3 mg/L, 0.98 mg/L)
Carpinteria Urban Agriculture (5.5 mg/L, 6 mg/L)
Goleta Commercial (1.8 mg/L, 2.3 mg/L)
Goleta Industrial (2.7 mg/L, 1.2 mg/L, 0.4 mg/L)
Solvang Residential (1.3 mg/L)

Natural sources of nitrogen may include atmospheric deposition, plant decomposition, wild animal waste, etc. Anthropogenic sources may include fertilizers used for landscaping, improper management of pet and yard wastes, and to a lesser degree, human waste (i.e., outdoor toileting).

Permethrin (10.6 ng/L)
Buellton Industrial (300 ng/L)
Solvang Residential (840 ng/L)

Permethrin is a pyrethroid insecticide. Sources may include products used for public vector control programs, food and feed crops, ornamental vegetation, livestock and pets, structures and buildings, repellant-treated clothing, and human application (i.e., control of lice and mites). Permethrin may also be used in places where food is handled, such as restaurants.

Dissolved Phosphorus (0.02188 mg/L)
Buellton Industrial (0.14 mg/L, 0.14 mg/L, 0.057 mg/L)
Carpinteria Urban Agriculture (3.1 mg/L, 2.5 mg/L)
Goleta Commercial (0.16 mg/L, 0.19 mg/L)
Goleta Industrial (0.71 mg/L, 0.14 mg/L, 0.098 mg/L)
Solvang Residential (0.23 mg/L, 0.066 mg/L)

Natural sources of phosphorus may include atmospheric deposition, plant decomposition, and weathering of rock, wild animal waste, etc. Anthropogenic sources may include fertilizers in landscaping runoff, improper management of pet and yard wastes, and to a lesser degree, human waste (i.e., outdoor toileting).

Dissolved Zinc (4 ug/L)
Buellton Industrial (59 ug/L, 30 ug/L)
Carpinteria Urban Agriculture (110 ug/L, 84 ug/L)
Goleta Commercial (60 ug/L, 79 ug/L, 22 ug/L)
Goleta Industrial (93 ug/L, 59 ug/L, 19 ug/L))
Solvang Residential (17 ug/L)

Natural sources of zinc may include soil and geologic erosion. Anthropogenic sources may include fertilizers, wood preservative, plating and metal work, paints containing corrosion inhibitor, atmospheric deposition from fossil fuel combustion, industrial processes, and galvanized metal surfaces (roofing, gutters, fences, etc.).

Table 2 contains summary statistics for each parameter that exceeded a benchmark during the reporting year by land use. Please note that the analytes listed here include those that only exceeded the benchmark in one sample and many of them were still below the benchmark value on a median basis during the reporting year.

Table 2. Summary Statistics for 2022-2023 Parameters that Exceeded a Benchmark

Analyte	Units	Land use	N	Min	Max	Median
Total Aluminum	ug/L	Commercial	3	210	1200	1000
		Industrial	6	420	1700	1115
		Single Family Residential	2	630	1800	1215
Dissolved Copper	ug/L	Commercial	3	2.8	12	12
		Industrial	6	1.6	14	3.5
Cyfluthrin	ng/L	Commercial	3	ND	33	3.35*
L-Cyhalothrin	ng/L	Agriculture	2	ND	5.3	4.1*
Malathion	ng/L	Commercial	3	ND	320	1.05*
Total Nitrogen	mg/L	Agriculture	2	5.5	6	5.75
		Commercial	3	0.26	2.3	1.8
		Industrial	6	0.26	2.7	1.09
		Single Family Residential	2	0.3	1.3	0.8
Permethrin	ng/L	Industrial	6	ND	300	3.5*
		Single Family Residential	2	ND	840	421.8*
Dissolved Phosphorus	mg/L	Agriculture	2	2.5	3.1	2.8
		Commercial	3	ND	0.19	5.1*
		Industrial	6	0.057	0.71	0.14
		Single Family Residential	2	0.066	0.23	0.148
Dissolved Zinc	ug/L	Agriculture	2	84	110	97
		Commercial	3	22	79	60
		Industrial	6	ND	93	44.5*
		Single Family Residential	2	ND	17	8.9*

Notes:

mg/L	milligrams per liter
N	Number of storm events monitored for land use type during the reporting year
ND	Not detected at the Reporting Limit
ug/L	micrograms per liter
*	For non-detect, half of the method detection limit was used to calculate the median.

Attachment 1 – Sampling Log for 2022-2023

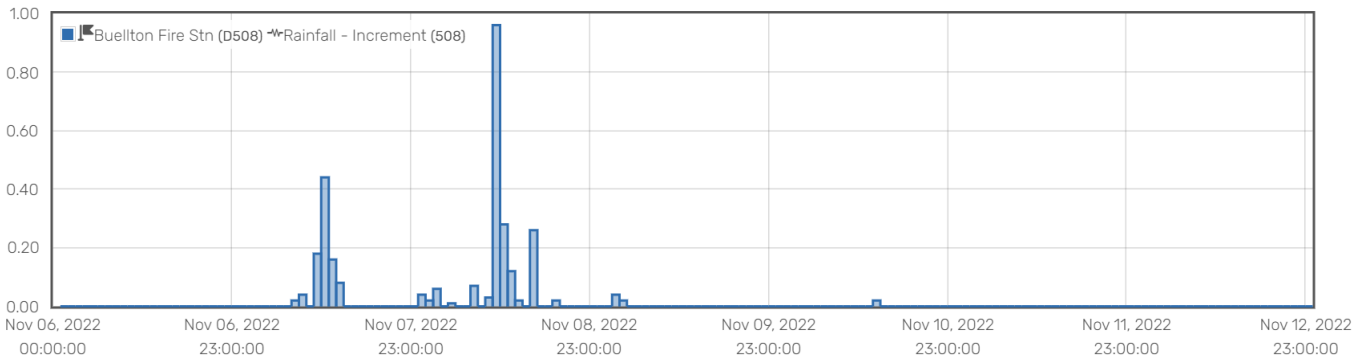
Rainfall data sources and distance to sampling locations are as follows:

- 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.

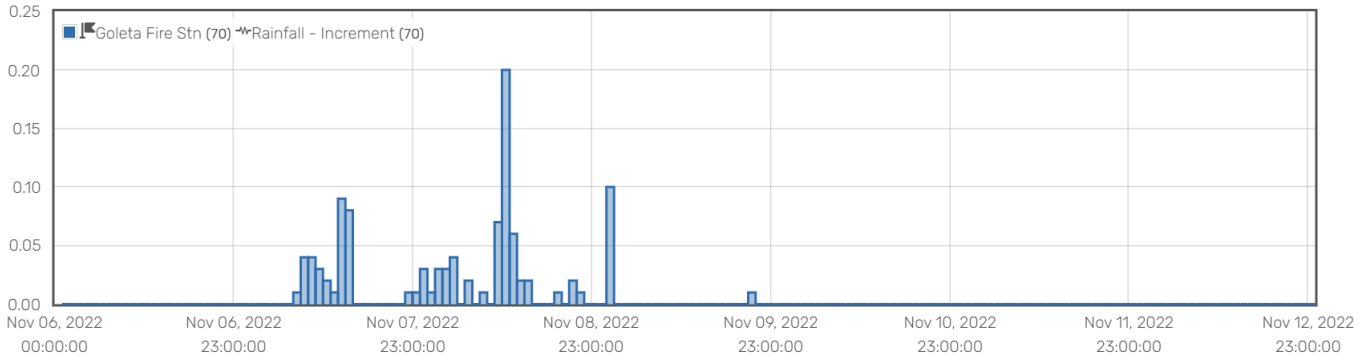
Rainfall amounts listed below are per storm, not rainfall day (as of 8:00 AM for previous 24 hours). The rainfall increment graphs are from the County of Santa Barbara's *Real-time Rainfall, River-Stream, and Reservoir Data* website: https://rain.cosbpw.net/.

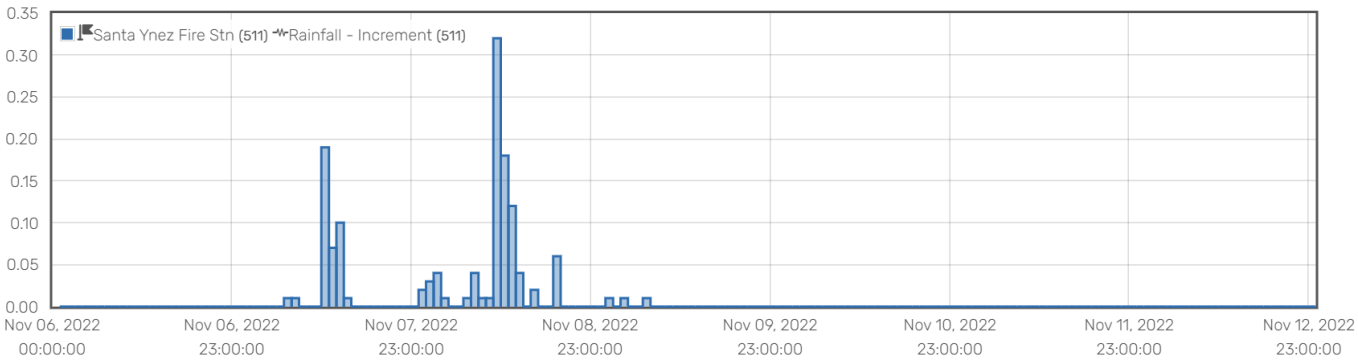
November 8, 2022 Monitoring Event

- Monday, November 7, 2022:
  - Rain forecast to fall overnight into Tuesday, November 8, 2022.
  - The County coordinated with the Partner Agencies to staff the monitoring event.
  - Personnel scheduled to sample at each location. Buellton Industrial: Bridget Elliott and Elizabeth Elliott. Goleta Commercial: Kipp Vilker, Goleta Industrial: Andrea Dransfield. Solvang Residential: Mary Zepeda and Taylor Gullikson.
- Tuesday, November 8, 2022:
  - Sample collection began at the Goleta Industrial location at 8:00 AM, at the Solvang Residential location at 8:15 AM, at the Buellton Industrial location at 10:05 AM, and at the Goleta Commercial location at 11:15 AM.
- Rainfall totals for this storm event:
  - Buellton 2.81"
  - Goleta 0.92"
  - Solvang 1.30"



Attachment 1- Sampling Log

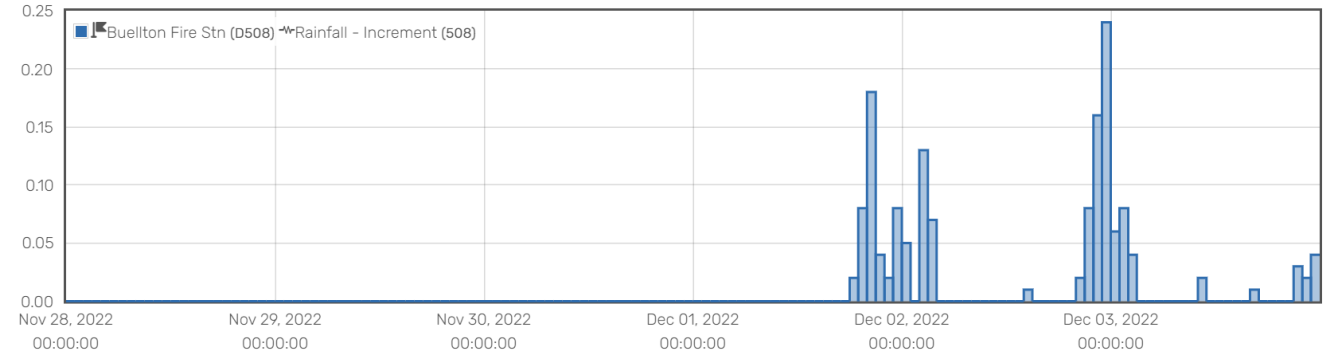


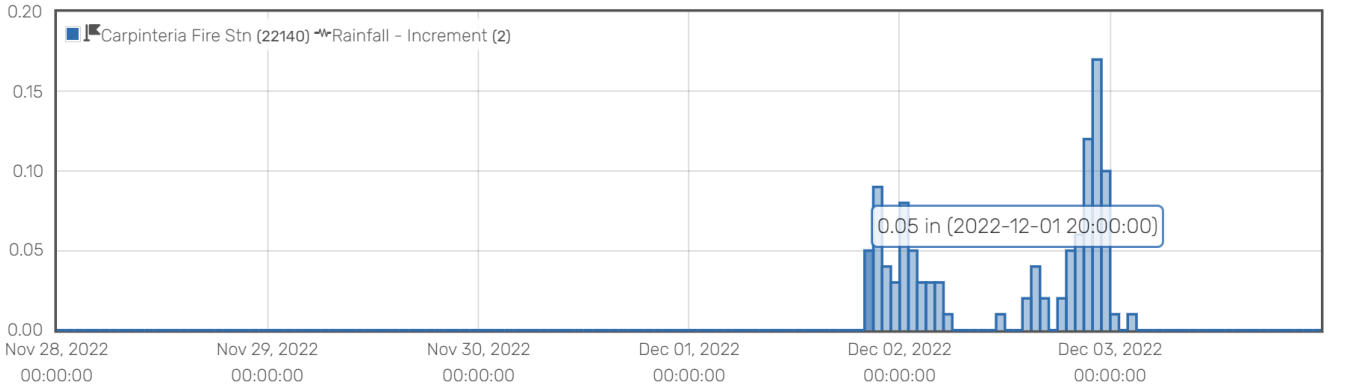


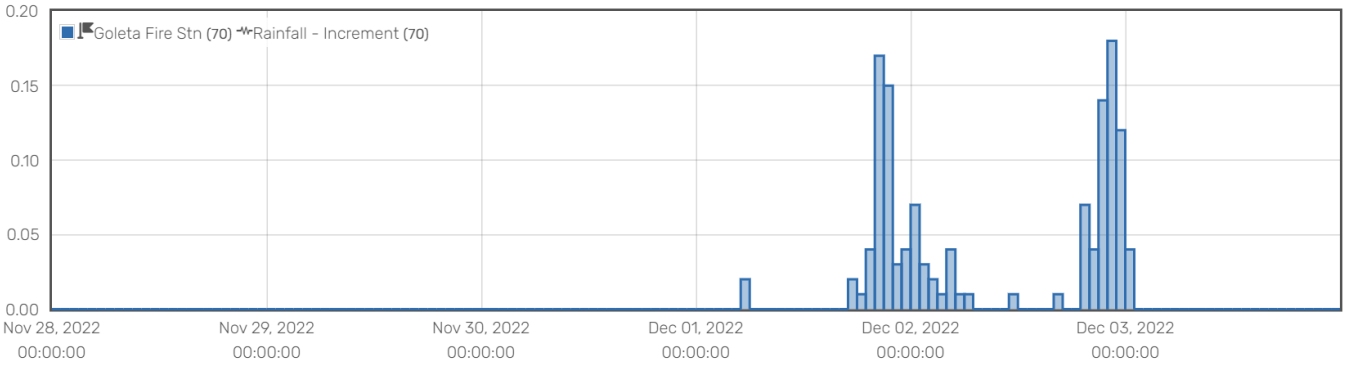
December 2, 2022 False Start:

- Monday, November 28, 2022:
  - Rain forecast to fall overnight Thursday, December 1, 2022 into Friday, December 2, 2022.
  - The County coordinated with the Partner Agencies to staff the monitoring event.
  - Andrea Dransfield and Dan Rowell with the City of Goleta responded with tentative availability.
- Tuesday, November 29, 2022:
  - Forecast indicating optimal time for sampling to be the morning of Friday, December 2, 2022.
  - Staff available for Carpinteria, Goleta, and Buellton sites.
- Wednesday, November 30, 2022
  - Forecast holding for sampling Friday morning.
  - County instructed Partner Agencies to plan for Friday morning, but not to sample until confirmation Thursday evening.
- Thursday, December 1, 2022
  - County canceled sampling event due to a combination of factors including the lab and courier coordination as well as the latest forecast, which was less rain, shorter duration, and still on schedule to arrive overnight while petering out in the morning.
- Rainfall totals for this storm event:
  - Buellton: 1.48”
  - Carpinteria: 1.05”
  - Goleta: 1.26”

Attachment 1- Sampling Log



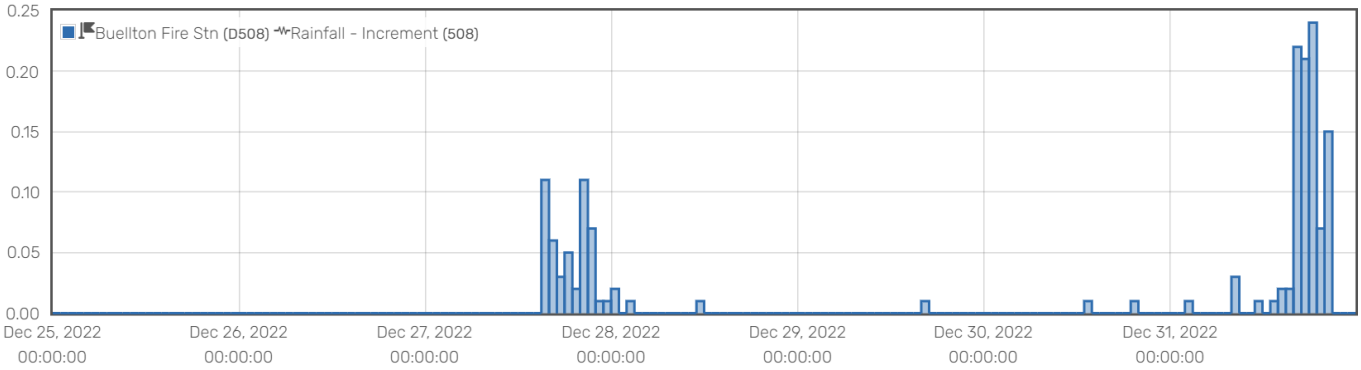


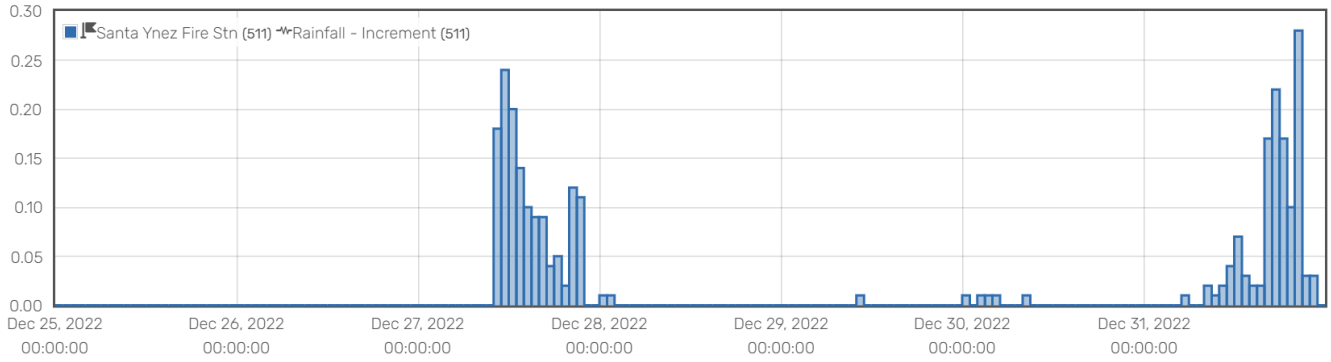


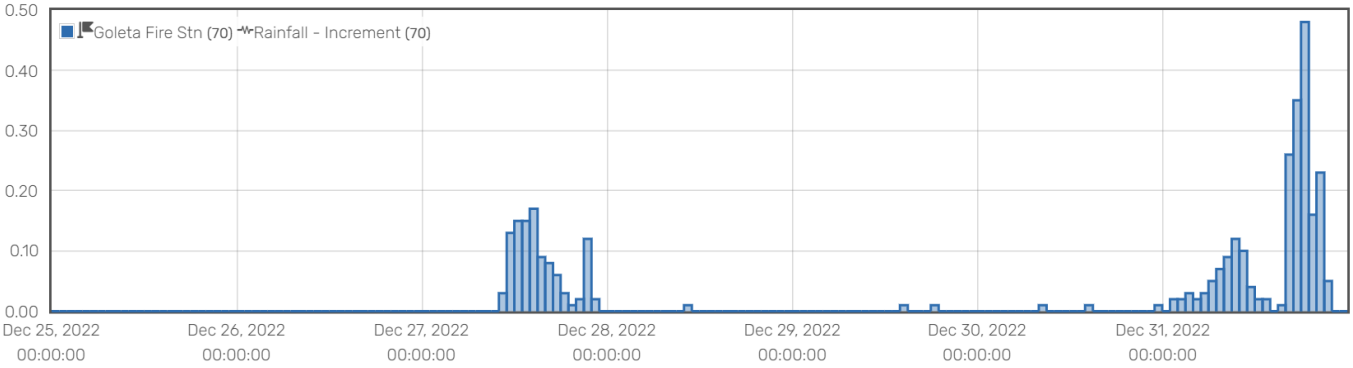
December 28, 2022 False Start:

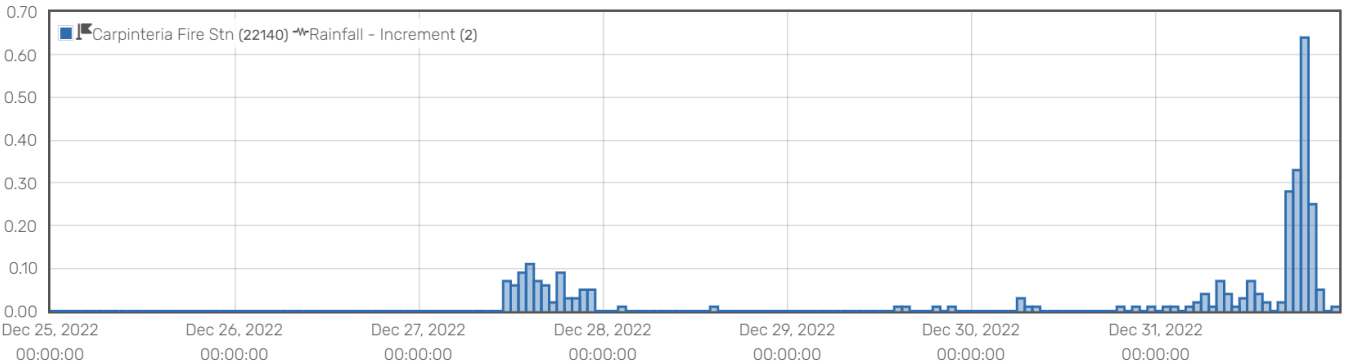
- Tuesday, December 20, 2022:
  - Preliminary email sent to determine availability of sample staff during the following week (December 26-30, 2022).
  - County offices closed during the week, but County staff were available to sample.
- Monday, December 26, 2022:
  - Sampling event cancelled due to lack of staff and limited lab/courier availability during holidays.
- Wednesday, December 28, 2022:
  - Rainfall totals for this storm event were:
    - Buellton: 0.51”
    - Solvang: 1.44”
    - Goleta: 1.07”
    - Carpinteria: 0.75”

Attachment 1- Sampling Log









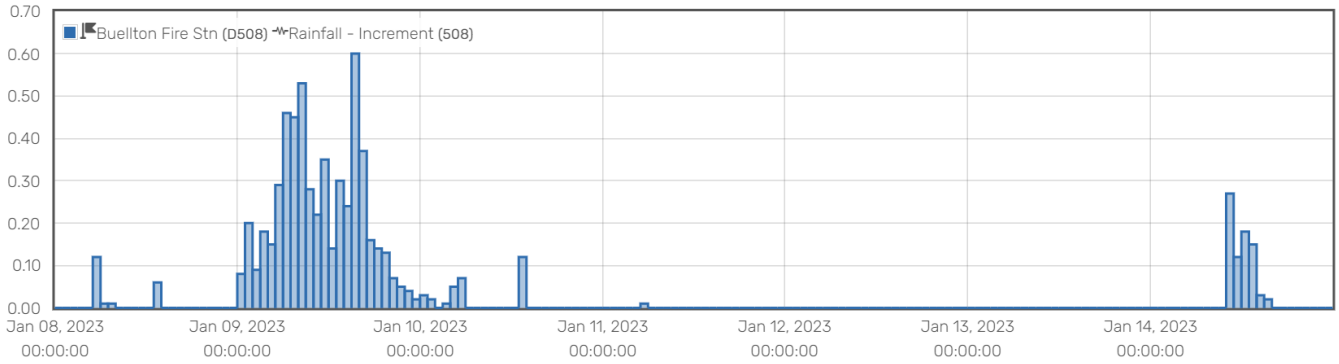
<u>January 9, 2023 Monitoring Event</u>

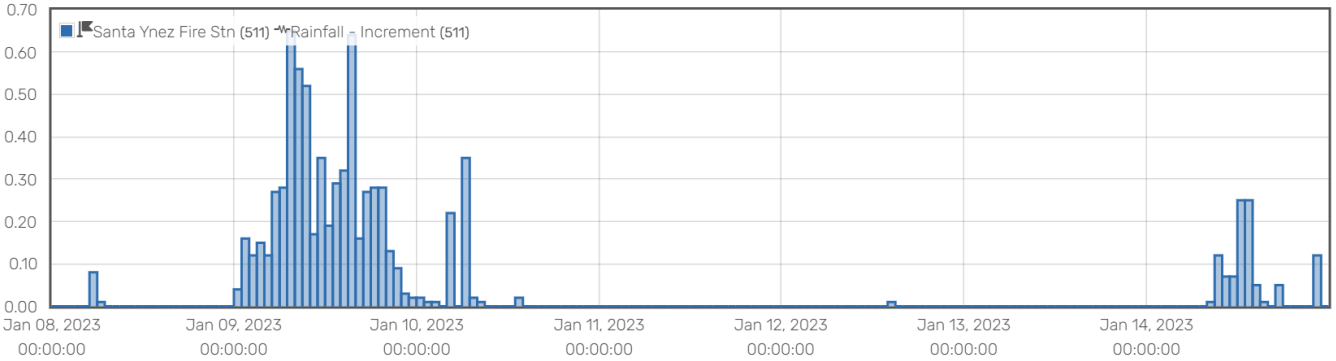
- Friday, January 6, 2023:
  - Rain forecast to fall Sunday night into Monday, January 9, 2023.
  - County representatives coordinated with the Partner Agencies to staff the monitoring event.

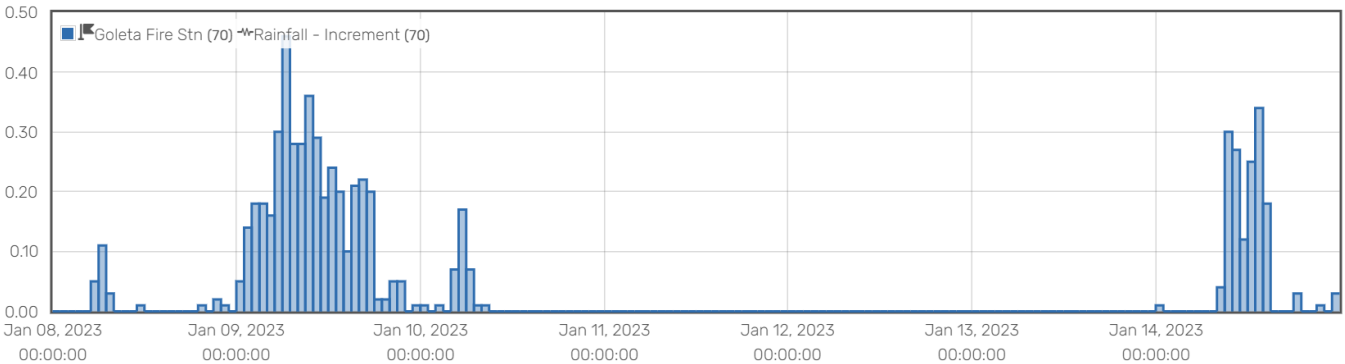
Attachment 1- Sampling Log

- Personnel scheduled to sample at each location. Buellton Industrial: Bridget Elliott. Goleta Commercial: Kipp Vilker. Goleta Industrial: Andrea Dransfield. Solvang Residential: Mary Zepeda and Taylor Gullikson.

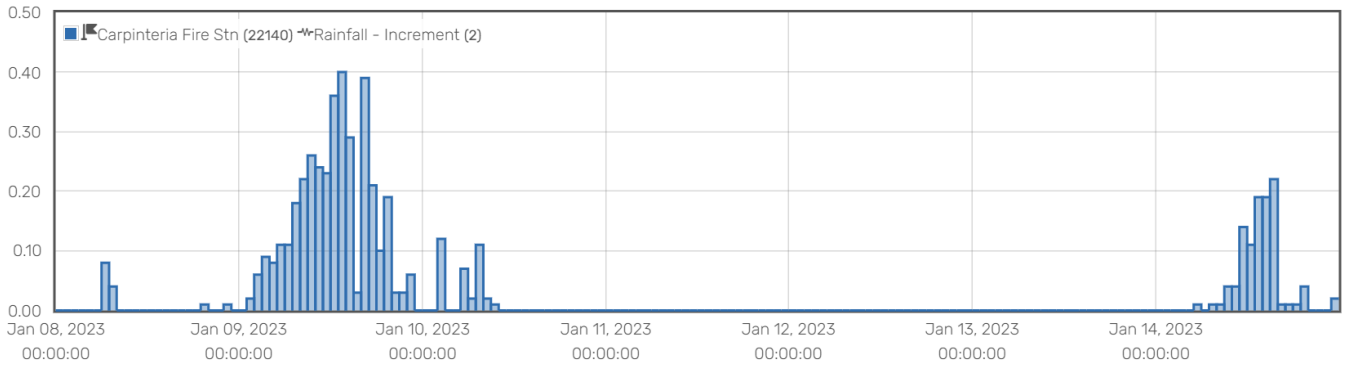
- Monday, January 9, 2023:
  - Sample collection began at the Buellton Industrial location at 6:47 AM and at the Solvang Residential location at 9:07 AM.
  - Sampling was infeasible at the Carpinteria and Goleta locations due to flooding and other storm impacts.
- Rainfall totals for this storm event:
  - Buellton 6.04”
  - Solvang 6.84”
  - Goleta 4.78”
  - Carpinteria 4.18”





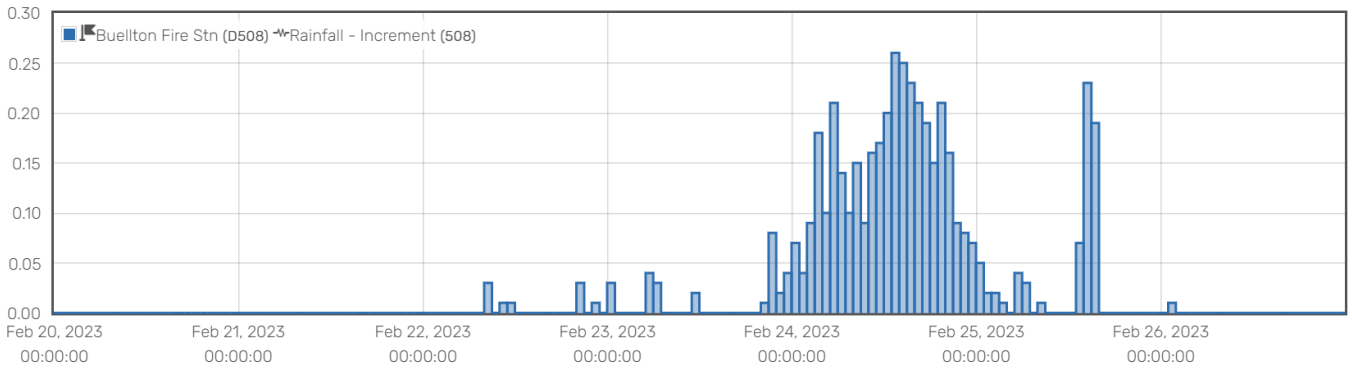


Attachment 1- Sampling Log

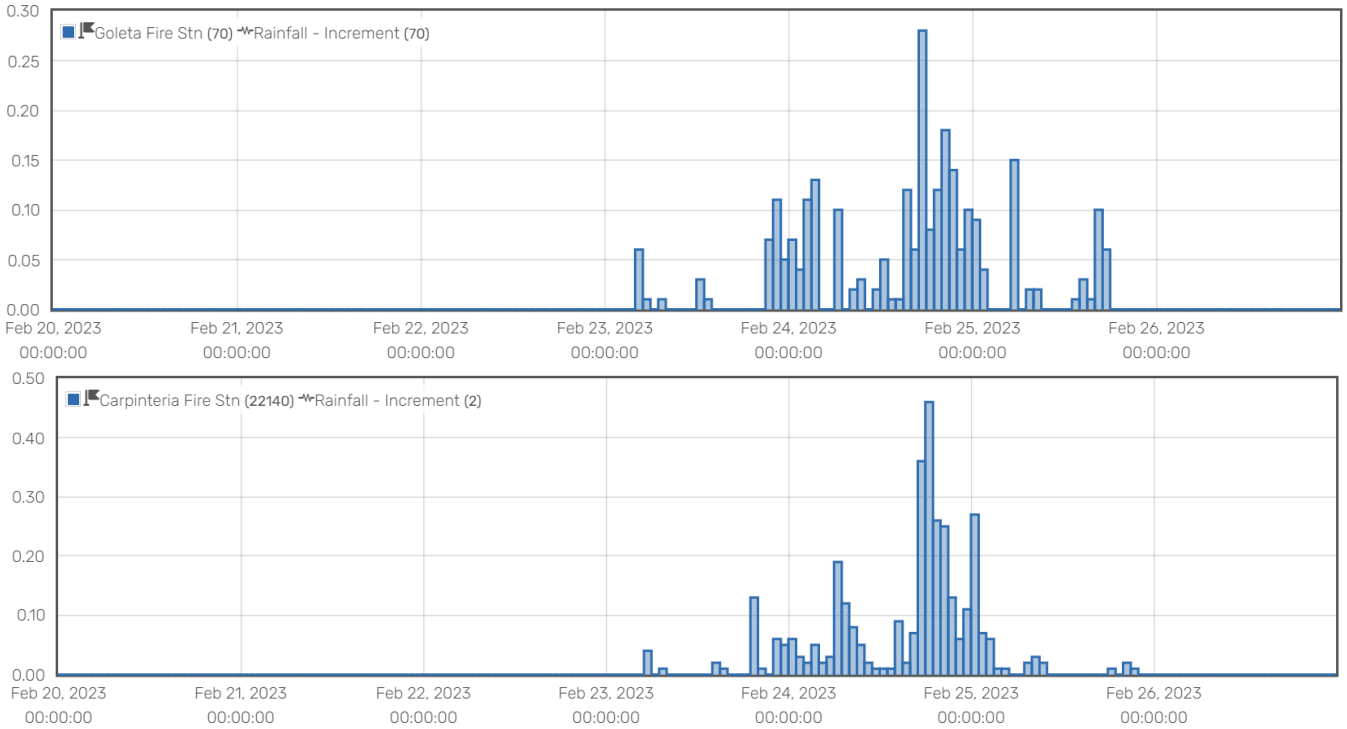


February 24, 2023 Monitoring Event:

- Monday, February 20, 2023:
  - Rain forecast to fall starting Thursday, February 23, through Friday, February 24, 2023.
  - County representatives coordinated with the Partner Agencies to staff the monitoring event.
  - Personnel scheduled to sample at each location. Buellton Industrial: Bridget Elliott. Carpinteria Agriculture: Adam Goodrich and Erin Maker. Goleta Commercial: Kipp Vilker. Goleta Industrial: Andrea Dransfield. Solvang samplers were unavailable to sample this event.
- Wednesday, February 22, 2023:
  - The forecast was delayed slightly and sample staff agreed to sample Friday morning.
- Friday, February 24, 2023:
  - Sample collection began at the Goleta Industrial location at 8:00 AM, at the Goleta Commercial location at 8:30 AM, and at the Buellton Industrial and Carpinteria Agricultural locations at 8:40 AM.
- The storm event rainfall totals were:
  - Buellton: 4.63”
  - Goleta: 3.61”
  - Carpinteria: 3.37”



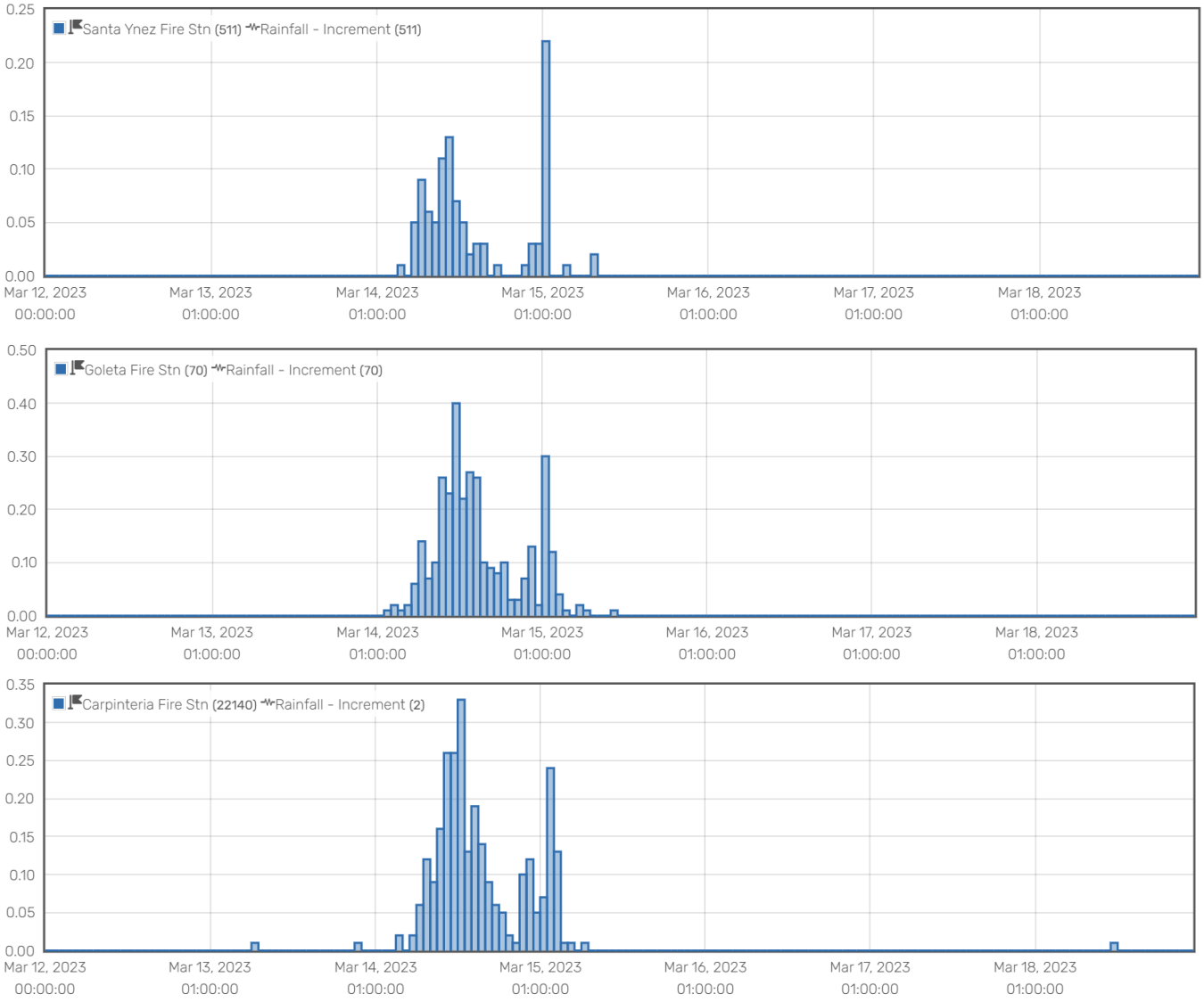
Attachment 1- Sampling Log



March 14, 2023 Monitoring Event:

- Tuesday, March 7, 2023:
  - Rain forecast to fall starting Monday, March 6, through Tuesday, March 7, 2023.
  - County representatives coordinated with the Partner Agencies to staff the monitoring event.
  - Personnel scheduled to sample at each location. Carpinteria Agriculture: Adam Goodrich. Goleta Commercial: Kipp Vilker. Goleta Industrial: Andrea Dransfield. Solvang Residential: Taylor Gullikson. (Sampling in Buellton had been completed for the year, no monitoring was required for this event).
  - The forecast was monitored through the week to determine the best time for sampling.
- Tuesday, March 14, 2023:
  - Solvang and Goleta samplers cancelled sampling due to safety concerns.
  - Adam Goodrich (SB County) collected samples at Goleta Industrial at 11:28 AM and at Goleta Commercial at 1:45 PM.
- The storm event rainfall totals were:
  - Solvang: 1.03”
  - Goleta: 3.23”
  - Carpinteria: 2.75”

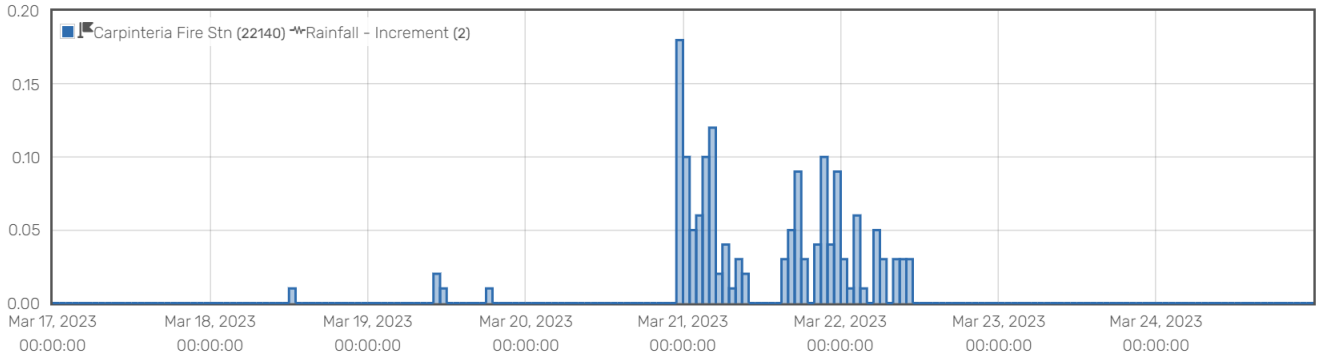
Attachment 1- Sampling Log



March 21, 2023 Monitoring Event:

- Monday, March 20, 2023:
  - Rain forecast to fall starting Tuesday, March 21, 2023.
  - County representatives coordinated with the Partner Agencies to staff the monitoring event.
  - Personnel scheduled to sample at each location. Carpinteria Agriculture: Adam Goodrich. Solvang samplers were unavailable to sample this event. (Sampling in Buellton and both Goleta sites completed for the year and therefore, no monitoring was required for this event.)
- Tuesday, March 21, 2023:
  - Adam Goodrich collected samples at Carpinteria Agricultural at 10:00 AM.
- The storm event rainfall total was:
  - Carpinteria: 1.53”

Attachment 1- Sampling Log



Attachment 2 – Lab Results for 2022-2023

Attachment 2 - Lab Results

Analyte	08 Nov 2022 Buellton Industrial	08 Nov 2022 Goleta Commercial	08 Nov 2022 Goleta Industrial	08 Nov 2022 Solvang Residential	09 Jan 2023 Buellton Industrial	09 Jan 2023 Solvang Residential	24 Feb 2023 Buellton Industrial	24 Feb 2023 Carpinteria Agricultural	24 Feb 2023 Goleta Commercial	24 Feb 2023 Goleta Industrial	14 Mar 2023 Goleta Commercial	14 Mar 2023 Goleta Industrial	21 Mar 2023 Carpinteria Agricultural	Reported Results Units	Water Quality Guidance	Water Quality Guidance Units
1,3-Dimethyl-2-nitrobenzene [surr]	555	705	542	479	316	364	272	84	429	313	237	278	420	%	NA	NA
Allethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	1.05	ug/l
Aluminum, Dissolved	23	24	48	29	36	24	20	32	35	44	ND	ND	23	ug/l	NA	NA
Aluminum, Total	1500	1200	1600	630	420	1800	730	880	1000	1700	210	680	190	ug/l	1000	ug/l
Ammonia as N	0.1	0.18	0.11	0.12	ND	ND	ND	ND	0.31	0.18	ND	ND	ND	mg/l	NA	NA
Azinphos methyl (Guthion)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.08	ug/l
Bifenthrin	ND	ND	ND	ND	3.4	ND	2.8	ND	ND	ND	ND	ND	ND	ng/l	800	ug/l
Bolstar	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Cadmium, Dissolved	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ug/l	1.8	ug/l
Cadmium, Total	0.25	0.21	0.31	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ug/l	1.8	ug/l
Calcium, Total	8.85	9.05	21.8	12.4	5.36	4.12	5.73	10.7	10.7	12	3.32	4.12	18.5	mg/l	NA	NA
Chlorpyrifos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.05	ug/l
Copper, Dissolved	4.2	12	14	4.1	2.8	0.95	1.6	8.2	12	6.9	2.8	2.3	8.2	ug/l	10	ug/l
Copper, Total	14	26	24	6.1	4.2	3.9	5	12	20	14	5.9	6.2	9.6	ug/l	NA	NA
Coumaphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.037	ug/l
Cyfluthrin	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	12.5	ng/l
Cypermethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	210	ng/l
Demeton-o	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Demeton-s	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Desulfinylfipronil	23	ND	ND	ND	2.6	ND	4.3	ND	ND	ND	ND	ND	ND	ng/l	100	ug/l
Diazinon	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	105	ng/l
Dichloran	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Dichlorvos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.035	ug/l
Dimethoate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	21.5	ug/l
Disulfoton	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	1.95	ug/l
Ethoprop	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	22	ug/l
Ethyl parathion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Fenpropathrin (Danitol)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.265	ug/l
Fensulfothion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Fenthion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	2.6	ug/l
Fipronil	35	ND	ND	ND	33	ND	6.1	ND	ND	ND	ND	ND	ND	ng/l	0.11	ug/l
Fipronil sulfide	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Fipronil sulfone	23	ND	ND	ND	36	7.8	9.8	ND	ND	ND	ND	ND	ND	ng/l	0.36	ug/l
Hardness as CaCO3, Total	30.2	28.8	70.8	38.3	17.9	14.4	19.1	41.4	34.1	38.5	8.3	13.1	74.2	mg/l	hard, <100=soft	mg/l CaCO3
Iron, Dissolved	69	35	72	32	42	30	28	79	49	50	ND	21	67	ug/l	5000	ug/l

Attachment 2 - Lab Results

Analyte	08 Nov 2022 Buellton Industrial	08 Nov 2022 Goleta Commercial	08 Nov 2022 Goleta Industrial	08 Nov 2022 Solvang Residential	09 Jan 2023 Buellton Industrial	09 Jan 2023 Solvang Residential	24 Feb 2023 Buellton Industrial	24 Feb 2023 Carpinteria Agricultural	24 Feb 2023 Goleta Commercial	24 Feb 2023 Goleta Industrial	14 Mar 2023 Goleta Commercial	14 Mar 2023 Goleta Industrial	21 Mar 2023 Carpinteria Agricultural	Reported Results Units	Water Quality Guidance	Water Quality Guidance Units
Iron, Total	2400	1800	2000	920	570	1300	1100	1200	1500	1900	340	860	310	ug/l	NA	NA
L-Cyhalothrin	ND	ND	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ng/l	3.5	ng/l
Lead, Dissolved	ND	0.51	0.95	ND	ND	0.38	ND	0.24	0.34	0.46	ND	ND	ND	ug/l	50	ug/l
Lead, Total	2.8	7.6	7.8	0.77	0.55	1.4	1.2	2.1	4.9	9.6	1.9	3.8	0.69	ug/l	NA	NA
Magnesium, Total	1.96	1.5	4	1.79	1.09	0.994	1.16	3.56	1.76	2.09	ND	0.684	6.78	mg/l	NA	NA
Malathion	ND	320	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.1	ug/l
Merphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Methyl parathion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.485	ug/l
Mevinphos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Naled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.07	ug/l
Nitrate as N	ND	0.25	0.5	0.39	ND	ND	0.57	4.6	ND	ND	ND	ND	5.3	mg/l	NA	NA
Nitrite as N	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ug/l	NA	NA
Nitrogen, Total	1.3	1.8	2.7	1.3	0.26	0.3	0.98	5.5	2.3	1.2	0.26	0.4	6	mg/l	0.38	mg/l
NO2+NO3 as N	200	270	570	410	ND	ND	600	4700	ND	ND	ND	ND	5400	ug/l	NA	NA
o-Phosphate as P	0.24	0.18	0.79	0.27	0.12	0.054	0.064	3.2	0.21	0.18	0.038	0.084	2.7	mg/l	NA	NA
o-Phosphate as P, dissolved	240	180	780	270	120	54	68	3100	210	180	38	84	2700	mg/l	NA	NA
Pendimethalin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	140	ug/l
Permethrin	ND	ND	ND	840	300	ND	ND	6.6	ND	ND	ND	ND	ND	ng/l	10.6	ng/l
Perylene-d12 [surr]	103	135	139	147	155	139	115	56	94.5	70.8	135	136	155	%	NA	NA
Phorate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.3	ug/l
Phosphorus, Dissolved	0.14	0.16	0.71	0.23	0.14	0.066	0.057	3.1	0.19	0.14	ND	0.098	2.5	mg/l	0.02188	mg/l
Phosphorus, Total	0.41	0.34	0.89	0.33	0.17	0.12	0.15	3.2	0.38	0.3	0.094	0.17	2.6	mg/l	NA	NA
Prallethrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	3.1	ug/l
Ronnel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Stirophos	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Sumithrin (Phenothrin)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	2.2	ug/l
Tefluthrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	0.035	ug/l
TKN	1.3	1.5	2.1	0.93	0.26	0.3	0.38	0.83	2.3	1.2	0.26	0.4	0.65	mg/l	NA	NA
Tokuthion (Prothiofos)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Total Suspended Solids	82	56	26	34	12	45	27	27	32	42	18	57	6	mg/l	NA	NA
Trichloronate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ng/l	NA	NA
Triphenyl phosphate [surr]	1330	1440	1650	1390	560	553	510	100	537	648	455	357	592	%	NA	NA
	153	183	314	202	239	223	158	68	158	274	212	592	167	%	NA	NA
Zinc, Dissolved	59	60	93	ND	ND	17	30	110	79	59	22	19	84	ug/l	4	ug/l
Zinc, Total	160	160	190	27	12	51	78	130	140	140	40	59	98	ug/l	NA	NA

Attachment 3 - Water Quality Benchmarks and Thresholds

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	

Attachment 3 –Water Quality Benchmarks and Thresholds

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 Buellton

Stormwater Program Effectiveness Assessment and Improvement Plan

Annual Summary 2022-2023

October 4, 2023

PRESENTED TO

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PREPARED FOR

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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 2022-2023 reporting year (Year 10) 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 Municipal Separate Storm Sewer System (MS4) Permit, Water Quality Order 2013-0001-DWQ, amended by Order 2015-0133-EXEC, 2016-0069-EXEC, 2017-XXXX-DWQ, 2018-0001-EXEC, and 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). It discusses six Outcome Levels that categorize BMP actions. The City's Stormwater Program BMPs primarily fall into 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
- Professional judgment and knowledge of local and 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 10 (July 1, 2022 through June 30, 2023) in order to assess program effectiveness and identify opportunities for improvement. This report summarizes implementation of the City's Stormwater Program for Year 10 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.

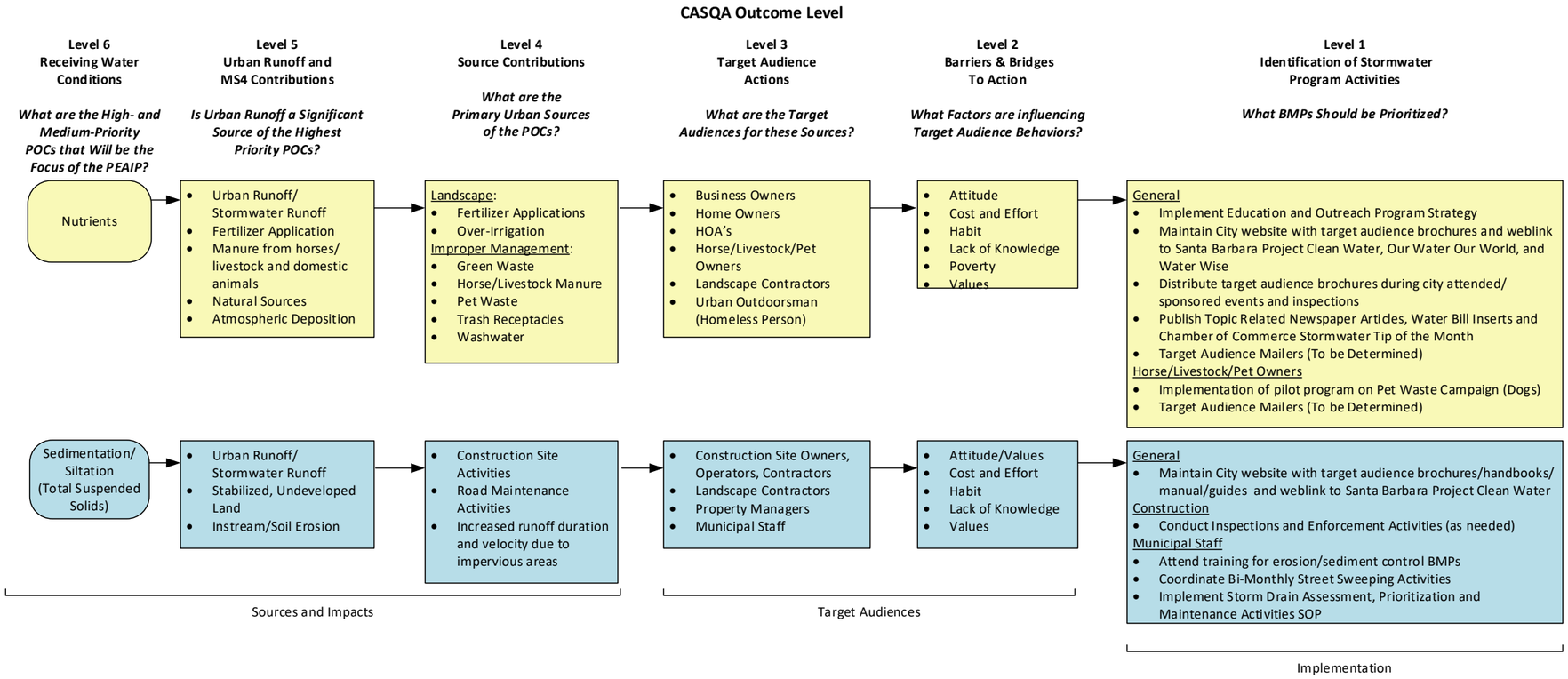


Figure 1. PEIAP Prioritized BMPs Identified for Target Audiences

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 small, approximately 5,000 people, and the City's urbanized footprint comprises a very small proportion of the watershed; therefore, MS4 discharges would comprise an equally small proportion of runoff compared to contributions to the receiving waters from other land uses (i.e., natural areas, agriculture, etc.). 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 subwatersheds; compare pollutant loading between subwatersheds; 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	2022-2023 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 BMP*s), 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 156 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 through City website	The City distributed 27 flyers and brochures at 3 outreach events during the reporting year. 219 brochures were taken from City during the reporting year.	Brochure Distribution at City designated facilities, City sponsored events or through 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 mailers to residents with registered pets, livestock owners, etc.	The City distributed 57 dog poop bag dispensers to dog owners via the Santa Ynez Humane Society/and outreach events.	Number of Visitors to the City's sponsored events Stormwater Display Booth	Over 168 people visited the Stormwater Display Booth during the reporting year's outreach events.

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

Management Questions	2022-2023 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 48 FOG and 40 IWD inspections during the reporting year.	**Review of External Data Sources** Brochure Distribution during FOG and/or IWD Program Inspection	Brochures are distributed 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's sponsored events Stormwater Booth	The Interested Parties Sign-up List was provided to the public at all 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	35 Stormwater quizzes were completed at outreach events during the reporting year. Ability to use a QR code to populate the quiz on a personal phone led to additional quizzes completed than in the past.
Has the City developed opportunities for citizen participation on-line through the City's Stormwater Webpage or Survey Monkey?	**Yes**	**Descriptive Statistics** Number of Visitors and Stormwater Quizzes Completed via City's sponsored events Stormwater Booth	35 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	No stormwater surveys were completed via the City Stormwater Website this year. The restaurant survey was translated into Spanish to make the survey available to a wider audience.

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

Management Questions	2022-2023 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Illicit Discharge Detection and Elimination [Outcome Level 4]					
Has the City developed IDDE procedures?	**Yes**	Confirmation of ongoing City Staff IDDE Training	28 City staff participated in the IDDE training during the reporting year.	**Site Investigations/ Inspections** City IDDE Site Investigations and/or Inspections with direct observation of an IDDE	100% of reported incidents were investigated. Three incidents were determined to have resulted in an illicit discharge during the reporting year. All were rectified, per the *Spill Response Plan* and *Enforcement Response Plan*.
Are FOG and IWD Program participants operating in a manner that prevents nutrients from leaving the site?	**Yes**	**Descriptive Statistics** Number of FOG and/or IWD Inspection Reports	48 FOG and 40 IWD inspections were conducted during the reporting year.	FOG and/or IWD Inspection Report Stormwater Questionnaires	Stormwater Questionnaires were completed at 48 FOG and 40 IWD inspections during the reporting year.

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

Management Questions	2022-2023 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** **Yes**	**Qualitative Assessment** Confirmation of local waste hauler (green waste) and Christmas Treecycle Program Confirmation of City Mutt Mitt Stations Biweekly Maintenance Program	Programs were in place and promoted on City social media during the reporting year. Mutt Mitt Stations were regularly maintained during the reporting year.	Mutt Mitt Station Biweekly Maintenance	Mutt Mitt Stations were regularly maintained during the reporting year.
Does City have legal authority to address non-storm water discharges?	**Yes**	Confirmation of established City Municipal Code and Certification of Legal Authority **Descriptive Statistics** Number of IDDE investigations and/or Inspections and follow up at facilities with deficiencies	Municipal Code and Certification of Legal Authority have been established. 6 IDDE investigations were conducted during the reporting year.	**Review of External Data Sources** FOG and/or IWD Inspection Reports and/or Violations **Review of External Data Sources** FOG and/or IWD Inspection Reports and/or Violations	48 FOG and 40 IWD inspections were conducted during the reporting year and inspection reports, as well as an annual report were prepared. 48 FOG and 40 IWD inspections were conducted during the reporting year.

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

Management Questions	2022-2023 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** Monitoring of frequented areas for abandoned pet waste	Stormwater Management Program staff monitor an area frequented by dog walkers in which the City installed CBSM posters on a regular basis.	**Internal Tracking by Stormwater Program** Mutt Mitt Stations	Trash cans are available at all but one Mutt Mitt station and filled pet waste bags have been observed in the trash cans.
Are FOG and/or IWD Program participants implementing Pollutant Prevention and Good Housekeeping practices?	**Yes**	**Qualitative Assessment** Confirmation of ongoing City Staff Training **Descriptive Statistics** Number of FOG and/or IWD Inspection Reports	28 City staff participated in Pollution Prevention and Good Housekeeping training during the reporting year. 48 FOG and 40 IWD inspections were conducted during the reporting year.	**Interviews/Surveying** **Review of External Data Sources** FOG and/or IWD Inspection Reports FOG and/or IWD Inspection Report Stormwater Questionnaires	48 FOG and 40 IWD inspections were conducted during the reporting year. Stormwater Questionnaires were completed at 48 FOG and 40 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 SW Program?	**Yes**				

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

Management Questions	2022-2023 Response	Data Assessment Methods	Analytics	Data Collection Methods	Analytics
Water Quality Monitoring [Outcome Level 5]					
Is the urban discharge a significant source of nutrients to receiving water?	No[1]	Comparing modeled data to established targets Use local data acquired through regional 303(d) Monitoring Program	303(d) Group Monitoring uses targets established in EPA Criteria. Data is still being collected to calibrate the pollutant load model; however, the *Amendment to the Water Quality Control Plan for the Central Coastal Basin to Establish Total Maximum Daily Loads for Nitrogen Compounds in the Santa Ynez River Basin, Santa Barbara County*, California, "Based on available information, it is generally expected MS4 entities (…City of Buellton) are currently achieving proposed nitrogen compounds waste load allocations. As such, at this time compliance with existing or future MS4 permits are expected to show continued attainment of waste load allocations for this source category."	Monitoring and sampling results Pollutant load model results	Sample results are maintained for the City's records. Data is being collected to calibrate the model relative to historic baseline.

[1] Per the Amendment to the Water Quality Control Plan for the Central Coastal Basin to Establish Total Maximum Daily Loads for Nitrogen Compounds in the Santa Ynez River Basin, Santa Barbara County, California, "Based on available information, it is generally expected MS4 entities (County of Santa Barbara, City of Lompoc, City of Solvang, City of Buellton) are currently achieving proposed nitrogen compounds waste load allocations. As such, at this time compliance with existing or future MS4 permits are expected to show continued attainment of waste load allocations for this source category.

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

Management Questions	2022-2023 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? Are there educational opportunities at County-sponsored events?	**Yes** **Yes**	**Qualitative Assessment** Confirmation of ongoing City Grading Staff Training	9 City staff participated in 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.
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	On an as-needed basis during development inquiries and site inspections.	Number of connections to construction contractors through grading permits and inspections	There were 5 active construction project and 7 pending projects within the City during this reporting year. The City maintained contact through site inspections and email communications and provided education.

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 as well as website; (6) promoting reporting illicit discharges and 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 at 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* (16 copies taken), *How to be Water Wise in your Garden* (15 copies taken), *The Ocean Begins on Your Street* (in English [13 copies taken] and Spanish [11 copies taken]), and the *Recognizing and Reporting Stormwater Pollution* pocket guide (22 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.

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 use 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. No fact sheets were taken at Farm supply or Windmill Nursery.

In Year 11, the City will continue to implement the 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

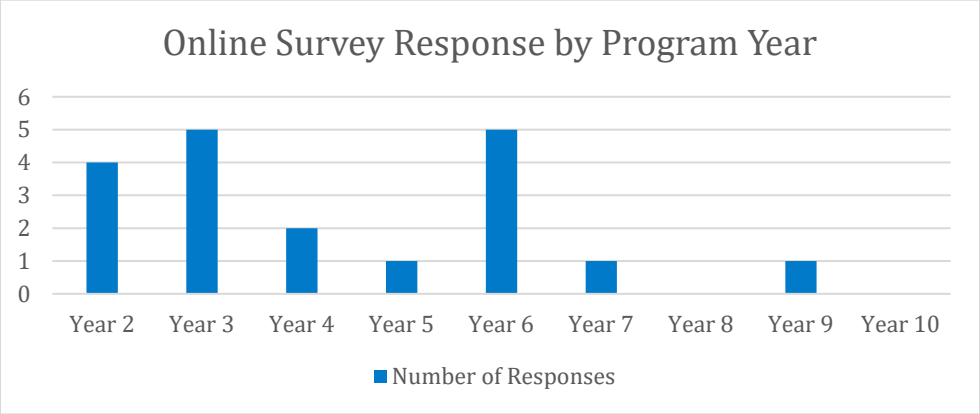
damaged/missing Shelf-Talkers. In addition, Santa Barbara County's OWOW Partner Stores will be visited by Plant Harmony and will receive training during the site visit.

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.

3.1.1.3 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 156 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. Despite Stormwater Management webpage traffic and the City's promotion of the survey during community events and restaurant inspections, survey response has been very low:



The restaurant survey was translated to Spanish and a weblink to the survey was added to the physical outreach materials given out during the IWD inspections.

3.1.1.4 Outreach During FOG and IWD Inspections

The City continued to provide in-person as-needed training at FOG and IWD facilities and 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 2022-2023 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, the City received only one stormwater comment (via the online survey) in Year 10.

3.1.1.6 Children's Education

During Year 10, the City coordinated with partner municipalities to conduct live assemblies on water science, called "Shows that Teach". The City coordinated the performance at Oak Valley Elementary School. An assembly was conducted at the school on March 1, 2023. Oak Valley students from kindergarten through fifth grade attended the presentation. The assemblies were hosted at elementary schools throughout the County and received positive feedback from teachers and principals at multiple schools. At the Open Streets event (see Section 3.1.2), several children recalled the assembly when asked where they have received information about stormwater from the City.

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

During the 2022-2023 reporting year, the City's Stormwater Management Program staff participated in several events, which is a highly effective way to have direct contact with the public, engage in stormwater discussions, answer questions, and assess public knowledge about the Program. After each event, staff meet to discuss the outcome and additional ideas to attract more of the public to the booth and provide stormwater information.

- On July 30, 2022, Buellton Stormwater Management Program personnel hosted a booth at the annual Buellton BBQ Bonanza. Approximately 1,000 people attended the event. The booth displayed educational materials and provided promotional giveaways, the stormwater quiz, and the interested parties list. Community members who visited the booth were able to engage with the Stormwater Program staff and take a quiz to assess their knowledge of stormwater issues and the local Management Program. Educational brochures, dog waste bag dispensers and treats, reusable tote bags, and other items were available for the public to take.

Figure 2. Member of the Public Taking Stormwater Quiz at Buellton BBQ

- On August 24, 2022, Solvang Stormwater Management Program representatives, on behalf of the Cities of Solvang and Buellton, staffed a table at the Solvang State of the City event. Approximately 13 people engaged staff at the booth. They discussed common stormwater problems, priority pollutants, and relevant stormwater BMPs with the attendees. The table featured an educational display board, brochures, the stormwater quiz, and the interested parties list.

- The California Coastal Commission's 2022 Coastal Cleanup Day was on September 17, 2022. The Cities encouraged community involvement in Coastal Cleanup Month for the entire month of September and promoted Coastal Cleanup Day on their social media channels.
- On May 21, 2023, Stormwater Management Program representatives staffed a booth at Santa Ynez Valley Open Streets. Approximately 55 people engaged staff at the booth, which included the same educational displays, brochures containing stormwater pollution prevention information, and give-aways as the Buellton BBQ. Community members who visited the booth were able to take the stormwater quiz.
- Stormwater Management Program representatives of Buellton and Solvang in coordination with Wilding Museum of Art and Nature, and the Cities' Chambers of Commerce coordinated with Oak Valley Elementary and Jonata Middle School to hold a Water Conservation Poster Contest. Students from grades K-8 were encouraged to participate in the contest to demonstrate how they conserve water at home. 11 entries were received, all of which received gift bags. Winners received gift certificates and the grand prize winner received a gift card and a family membership to the Wildling Museum of Art and Nature. A contest reception was held on May 26, 2023, at the Wildling Museum of Art and Nature, with approximately 40 people in attendance. General stormwater outreach materials were made available at the event.

Figure 3. Poster Contest Reception

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. The City adhered to the Ordinance, which was amended in 2021, during Year 10 and no further updates were made to the Ordinance.

3.1.3.2 IDDE Procedures

Enforcement Response Plan (ERP) (City of Buellton, 2016 updated 2021) and *Spill Response Plan* (SRP) (City of Buellton 2016, updated 2021) 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 (28 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 91%.

3.1.3.3 IDDE Detection, Elimination, and Reporting

During Year 10, four potential illicit discharges or illegal connections were reported and were investigated by City staff and/or its contractors. Three of the five investigated incidents were determined to have resulted in an illicit discharge.

- On January 19, 2023, discharge from a storm pipe to Zaca Creek was observed by City wastewater staff during a field assessment and chlorine odor was detected. The discharge was sampled and tested positive for chlorine. City staff obtained a contractor to investigate, which consisted of video recording of the line. The point of discharge was found to be from a hotel. The City issued a Cease and Desist letter January 20, 2023. The hotel manager stated that the equipment causing the discharge was managed by a third party, whom the hotel manager immediately contacted. The third party rerouted the equipment and piping and fully ceased the discharge by January 27, 2023.
- At 8:00 AM on October 6, 2022, a sanitary sewer overflow occurred from a lift station located at 73 Industrial Way.
-
- Staff responded to follow-up and verify the discharges were ceased in all cases. Incident reports were completed for the confirmed discharges. Photographs and incident details (location, timeline, description of discharge, written response, etc.) were retained within the City's records.

One incident occurred at 11:59 PM on September 15, 2022. The spill consisted of winery wash water on 140 Industrial Way, but it did not discharge to the storm drain.

The other incident occurred on October 7, 2022. The spill consisted of traces of pomace from a winery on Industrial Way.

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 48 FOG and 40 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), and year 10 (48 FOG and 40 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.

No respondents competed the City's online Restaurant Survey (available on the Stormwater Management website); however, only no respondents completed the survey during the reporting year. Therefore, a link to the survey was added to the materials distributed to facility staff during FOG inspections and the survey was translated to Spanish on the Stormwater Management website.

3.1.4.2 Target Audience-Specific BMP Guides

The City collaborated with the Cities of Solvang, Carpinteria, Goleta, Lompoc, Santa Barbara, and the County of Santa Barbara on updates to all the BMP guides including:

- Updating the safe medicine disposal information in the *Animal Care and Handling Facilities Guide to BMPs*, *Pet Owners Guide to BMPs*, *Homeowners Guide to BMPs*, and *Multi-Unit Residential Dwellings Guide to BMPs*.
- Revising the post-construction BMP information and the addition of a new BMP in the *Construction Industry's Guide to BMPs*.
- Updating the requirements for hosting color runs in the *Special Events Guide*.

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 doggy bag dispensers at community events to promote the proper cleanup and disposal of pet waste amongst residents. The City also advertised the CTPL campaign via 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. The City targeted this area for a pilot program to determine the effectiveness of additional CTPL promotion. In 2021, 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 area was inspected and photographed before the signs were installed. Upon installation, landscapers cleaned all pet waste from the area. The estimated quantity of abandoned pet waste is monitored and recorded at monthly intervals to evaluate the effectiveness of the posters.

3.1.5 Water Quality Monitoring (CASQA Outcome Level 5)

The City participates in a regional water quality 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) that was submitted to the Central Coast Water Board on December 29, 2014. The goal of the monitoring program is to characterize pollutant concentrations and loads from discharge locations

specific to land use within the represented MS4s to collect sufficient data to inform, update, or calibrate the land use-based pollutant load (LBPL) model. The plans were revised to address comments from the Regional Board and resubmitted on October 13, 2015 through the SMARTS Database. On March 4, 2016, Santa Barbara County Project Clean Water received Central Coast Water Board Executive Officer approval for the revised *Urban Stormwater Monitoring Plan* and the *Quality Assurance Project Plan* (County of Santa Barbara et al 2015, revised 2016). Monitoring was initiated during Year 3 and results were reported as part of the Year 3 and subsequent Annual Reports.

Early results of the USWMP provided for a locally informed land use-based prioritization and reduction model (LPRM) that was used to calculate wet weather loads in the County, prioritize catchments for BMP placement, and evaluate the performance of existing and future BMPs. The Plan continues to be 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, with one location in Buellton (representing industrial land use). Stormwater runoff was analyzed from eight to ten storms. The data was used to revise the event mean concentrations of the model to reflect local runoff concentrations in the modeling results, which were reported in the regional 303(d) Monitoring Program Results FY 2015-2016.

The Central Coast Water Board issued *Technical Report* Order 13267 on June 13, 2016 that required the submission of the following reports to document progress on key activities relating to completing spatially-based stormwater volume and pollutant loading estimates, as follows.

- Report #1: Catchment delineation and relevant attributes that support catchment-scale stormwater volume and pollutant loading analysis, which was due 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, which was due 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, which was due June 30, 2018 and revised October 15, 2018; and
- Report #4: Stormwater Program Modifications Fifth Year Report, which was due October 15, 2018.

On November 10, 2016, the Central Coast Water Board provided comments on how to refine the model approach to meet specific requirement listed in Technical Report Order 13267. The Central Coast Water Board 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 results, were uploaded to the LPRM and the new modeling results were reported in response to Technical Report Order 13267, Report #3. The City 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* (Geosyntec 2018). The City submitted the required Technical Order Reports #1 through 4.

The City continues to participate in the regional water quality monitoring program. During Year 2022-2023, the City deployed to sample on November 8, 2022, January 9, 2023, and February 24, 2023, with partner monitoring agencies and successfully collected samples per the monitoring program protocol.

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. Applicable City staff and contractors were provided with Construction Stormwater Training (9 trainees).

The training is designed to provide information to assist in identifying and recommending effective erosion and sediment control BMPs during construction inspections. The test of understanding conducted after the training displayed high levels of knowledge retention, with the average score among the 9 trainees being *92%.

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 10, the City had five projects in active construction. The City reviewed one Stormwater Pollution Prevention Plan (SWPPP), three Erosion and Sediment Control Plans (E&SCPs), and three Stormwater Control Plans (SWCPs)/. The City conducted monthly inspections at active construction sites during the reporting year. This appears to be a very effective BMP, as the inspector meets with on-site construction staff to provide 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 10, 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)

No completed construction withing the MS4 area in year 10. Four construction projects were in the Engineering project plan check phase. Three projects were in the grading phase. The City reviewed the SWCPs that were required to be submitted by these projects to comply with the Central Coast Post-Construction Requirement (PCR) measures.

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

3.2.5.1 Street Sweeping

During Year 10, the City's street sweeping contractor continued to conduct bimonthly street sweeping when possible (sweeping was not conducted during rainfall). 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. This composes 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 also continued to implement its *Storm Drain System Assessment, Prioritization, and Maintenance Standard Operating Procedure* (SOP). In Year 10, the City contracted cleaning of the storm drain system catch basins, drop inlets, area drains, and sidewalk drains. The contractor cleaned 214 of the City's 220 storm drains and removed an estimated total of 4,045 gallons of organic material (432 five-gallon buckets), sediment (299 five-gallon buckets), and trash (78 five-gallon buckets). This is a 17% increase from the estimated total in Year 9; however the year yielded high rainfall totals and extreme weather; therefore, additional sedimentation to the MS4 would be expected. This also appears to be a very effective BMPs, as it is a direct means of pollutant removal from the MS4.

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 10. 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 has identified the successful 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.

During 2022-2023 (Year 10), as public health restrictions due to the COVID-19 pandemic loosened, the City was able to return to many of its customary BMPs (i.e., public events, in-person meetings, etc.) while continuing to utilize beneficial alternative methods that were adapted during the height of the pandemic. Instead of the educational assembly that the City has provided to local schools in the past, 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, which has 355 students, and the videos were incorporated into class curriculum. The videos were used at elementary schools throughout the County and received positive feedback from teachers and principals at multiple schools.

The biggest challenge the Stormwater Program faced during the reporting year was implementing its Public Involvement and Participation BMPs. The City focused on providing the public with stormwater educational opportunities through its website; electronic and hard-copy newsletters through the Buellton Chamber of Commerce and in utility bill inserts (i.e., the *Buellton Buzz* newsletter); social media posts; and through brochures and flyers in essential public areas like the SYVBG. The City continued the CBSM campaign, CTPL, by maintaining and filling pet waste bag stations throughout the City and educating the public through articles in local newsletters. The City implemented a new facet of the campaign during the reporting year by installing large CTPL posters along a high pet-traffic area to encourage the pet owners to pick up their pet's waste. The City received positive feedback from the public after the posters were installed. The City will continue to monitor the area for pet waste loading, compare to pre-signage loads, and assess the effectiveness of this BMP.

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).

2016 *Technical Report Order 13267* (June 13).

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.*

2015, updated 2017 *Quality Assurance Project Plan for Urban Storm Water Monitoring Plan 2015-2018.*

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 *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.*

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

Geosyntec Consultants

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 Municipal Separate Storm Sewer System (MS4) Permit, Water Quality Order 2013-0001-DWQ, amended by Order 2015-0133-EXEC, 2016-0069-EXEC, 2017-XXXX-DWQ, 2018-0001-EXEC, and 2018-0007-EXEC*

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City of Solvang

Storm Water Management Program

Program Effectiveness Assessment and Improvement Plan (PEAIP)

Annual Summary 2022-2023

SOLVANG

The Danish Capital of America

October 2, 2023

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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 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 10 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, 2022, through June 30, 2023.

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 3-10 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 10 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 10:

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

During Year 10, 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:

BMP Guides: 3 Homeowners Guide to BMPs, 107 Special Events Guide to BMPs

Brochures: 8 Gardener's Guide to Clean Water; 7 Recognizing and Reporting Stormwater Pollution; 3 The Ocean Begins on Your Street (3 English and 0 Spanish).

In addition, the number of education and outreach materials distributed at the Santa Ynez Valley Botanic Garden (SYVBG) Information Kiosk related to Nutrients include:

Brochures: 14 Gardener's Guide to Clean Water; 23 Recognizing and Reporting Stormwater Pollution; 24 Making the Connection (13 English and 11 Spanish).

The COS continues to maintain stormwater bookmarks at City facilities (City Hall and Planning Department) that contain 10 tips of "What you can do" to prevent stormwater pollution. Additionally, the COS continued to distribute stormwater bookmarks at our local libraries:

Solvang School: 100 Stormwater Bookmarks

Solvang Public Library: 100 Stormwater Bookmarks

3.1.1.2 Website File Views/Hits

Note: On January 1, 2022, the City's website platform was changed from Civic Plus to Google Analytics. With this change, the City has been unable to recreate a new Website Hits/Download Report that disseminates the information in a format that provides the differentiation for the number of hits or downloads of each of the BMP guides, brochures and posters Nutrient related outreach materials received during the reporting year. The City is actively working to recapture this capability through working with the City's IT/website contractor and through staff training.

During Year 10, the COS's website maintained the following Nutrient related outreach materials:

BMP Guides: Landscaper's Guide to BMPs (English and Spanish); Restaurant's Guide to BMPs (English and Spanish); Special Events Guide to BMPs (English and Spanish); Multi-Unit Residential Dwellings Guide to BMPs (English and Spanish), Mobile Pet Groomer & Stylist Guide to BMPs (English and Spanish), Mobile Cleaners Guide to BMPs (English and Spanish)

Brochures: Gardener's Guide to Clean Water (English and Spanish); Homeowner's Guide to BMPs (English and Spanish); The Ocean Begins on Your Street (English and Spanish) and Gardeners Use and Disposal Pesticide Fact Sheet.

Posters: Cleaning Up Posters (English and Spanish).

In Year 11, the COS continues to maintain Nutrient related BMP Guides, Brochures, and Posters on the City's Stormwater Management's webpage as well as additional resources links to the Santa Barbara County Project Clean Water, Our Water Our World (OWOW), Less is More and Santa Barbara County Water Wise website.

3.1.1.3 Event Participation

During Year 10, the COS participated in 3 education and outreach events (Buellton BBQ Bonanza, State of the City, Santa Ynez Valley Open Streets) and sponsored a Stormwater Display Booth at each event. The number of education and outreach materials distributed at these events related to Nutrients include:

BMP Guides: 0 Homeowner's Guide to BMPs

Brochures: 0 Gardener's Guide to Clean Water; 0 Make the Connection, Our Water Our World Brochure-Pests Bugging You; 4 Recognizing and Reporting Stormwater Pollution; 3 The Ocean Begins On Your Street (English).

Giveaways: 20 COB & COS Stormwater Reusable Grocery Bags, 3 COB & COS Reusable Book Bags, 11 COB & COS Stormwater Bookmarks, 10 County of Santa Barbara Project Clean Water Stickers (Kids), 2 County of Santa Barbara Team H20 Kids Activity Book, 42 CTPL Bag Dispensers for Pet Waste Disposal.

The COS also supported a Coastal Cleanup Day (September 18, 2023) via Explore Ecology and the County of Santa Barbara's Resources Recovery & Waste Management Division that focused on local cleanup at various locations within Santa Barbara County. In Year 11, the COS will continue to support the next Costal Cleanup Day in 2024.

The number of visitors to the City's sponsored event's Stormwater Display Booth were as follows: Buellton BBQ Bonanza (approximately 100 Visitors), State of the City (13 Visitors), and Santa Ynez Valley Open Streets (55 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 as well as distribute the guide to other local landscapers when identified in-person or 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.

Due to staffing changes within the Santa Barbara County Animal Services, the BMP Guides were not distributed during Year 9 or 10. During Year 10, the COB and COS began coordinating with Partner Agencies to update all of the BMP Guides. Upon reissuance of the BMP Guides in Year 11, the COB will re-engage Santa Barbara County Animal Services to distribute the BMP Guides on behalf of the COB and COS and Partner Cities to Pet and Animal (Horse/Livestock) Owners.

3.1.1.5 Direct Mailers/Media Campaign

3.1.1.5.1 Articles

During Year 10, the COB and COS did not submit stormwater pollution prevention articles for publication within the Santa Ynez Valley News; but rather developed a Stormwater Social Media Series as alternative education and outreach approach as described within Section 3.1.1.5.4.

3.1.1.5.2 Direct Mailers

In January. the COS inserted a copy of the Stormwater and Water Conservation Tip of Month

into the Water Bill as an additional stormwater education and outreach measure that will reach all residents and business owners within the community. The Stormwater TOM contains nutrient related Tips as specified within Section 3.1.1.5.3.

During Year 10, the COS also focused on revising the Pet Owner and Animal Care & Handling Facilities Guide to BMPs that will be distributed 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 and Water Conservation TOM are also available at the stormwater display at City Hall.

The following nutrient related Stormwater TOM as published in the month of May and October:

> May: Have a pest problem in your home or garden? When searching for pesticides consider using less-toxic products to help reduce pesticide pollution in your community. 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) to learn more about less-toxic products to use on specific garden pests.
>
> October: Did you know animal owners can help reduce bacteria and nutrient levels in our local waterways by promptly picking up pet waste and properly managing animal waste? Visit your City's Stormwater Management webpage (Buellton or Solvang) to learn about best management practices for pet owners and animal care & handling facilities.

The COS also worked with the Solvang Chamber of Commerce to publish 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.

3.1.1.5.4 Social Media

During Year 10, the COB and COS created a Stormwater Social Media Series as an alternative outreach approach to the publication of stormwater pollution prevention articles within the Santa Ynez Valley News.

On February 9, 2023, the COS began posting the following Stormwater Social Media Series on the City's Facebook Page. The series is designed to give the reader a basic understanding of stormwater, where it flows, how it becomes polluted and what are sources of stormwater pollutants such as pesticides and fertilizers from landscaping and agriculture, and what impacts does urban development have on stormwater. The series also provides an update on our local water way including where it drains to, how its monitored and current impacts and what the city does to prevent stormwater pollution as required by state law.

3.1.1.5.4 Billboard

Both the COB and COS continue to maintain a stormwater billboard at the SYVBG Information Kiosk. The COS also continues to maintain a stormwater billboard at the Solvang Public Library.

3.1.1.6 Community Based Social Marketing (CBSM) Campaign

3.1.1.6.1 Our Water Our World (OWOW) Campaign

During Year 10, 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.

On November 11, 2022, COS expanded its education and outreach materials by purchasing 4 new Fact Sheets (Bed Bugs-English and Spanish; Moles, Voles and Gophers; and Pesticides-Spanish) that were added to the OWOW Display Rack.

The number of education and outreach materials distributed at the Valley Hardware included:

Brochure: 9 Less Toxic Products, 12 Ten (10) Most Wanted, 3 HHW Facilities SBC,

Fact Sheets: 34 Ants (30 English and 4 Spanish), 18 Aphids, 4 Bed Bugs (4 English and 0 Spanish)3 Cockroaches, 16 Flees, 25 Healthy Gardens, 10 Lawn, 6 Moles, Voles & Gophers, 13 Mosquitos,5 Pesticides (4 English and 1 Spanish), 19 Rats & Mice (17 English and 2 Spanish), 17 Roses, 8 Snails & Slugs, 6 Spiders, 14 Weeds, 5 Yellowjackets In addition, the COS continued 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.

On March 31, 2023, Valley Hardware was visited by Plant Harmony, who provided OWOW retailer training to six (6) staff as part of an OWOW Partner Agency Contract. During the training staff were educated on stormwater runoff, where local Household Hazardous Waste (HHW) facilities are located, their role in reducing problem pesticide usage, the principals of Integrated Pesticide Management, how to read a pesticide label, the less toxic pesticides their store sells, proper usage of these pesticides, current pesticide problems and less toxic solutions for these problems for their customers. These trainings also provide suggested alternatives to their customers to manage their gardens sustainably with the intent to reduce the toxic pesticides and fertilizers threat so easily can get into the waterways.

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 Bag Dispensers for Pet Waste Disposal and Stormwater Bookmarks at designated 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 Bag Dispensers for Pet Waste Disposal at designated events and City Hall. During Year 10, the City distributed 148 CTPL Bag Dispensers for Pet Waste Disposal at City Hall; and 29 CTPL Bag Dispensers for Pet Waste Disposal were distributed at the Buellton BBQ Bonanza. In addition, the COB provided 60 CTPL Bag Dispensers for Pet Waste Disposal to the Santa Ynez Valley Humane Society. The COS continued to distribute CTPL Postcards at City Hall which provides information on The Truth About Dog Poop through Year 10.

In Year 11, the City's Stormwater Management Webpage will be updated to include The Truth About Dog Poop information from on the back of the postcard as the closethepooploop.com link will no longer be supported; and the distribution of the postcard will discontinue due to the closethepooploop.com reference. The City will be reordering the CTPL Bag Dispensers for Pet Waste Disposal for continued distribution at designated events and City Hall.

3.1.1.7 IDDE Training

There were 24 City Staff (6 new and 17 existing), 6 Contract Staff that were provided IDDE Training. All new City Staff and Interns were provided with a Quiz following the initial training. All existing City Staff were provided with 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 from 6 New City Staff and the annual assessment from 17 Existing City Staff and 6 Contract Staff demonstrates general awareness by the average percentage correct for New City Staff 97%, Existing City Staff 86%, Contract Staff 98%. As a result, 10 of the 12 spills and/or illicit discharges reported were from City Staff; and 1 from an external agency and 1 from public notification.

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

3.1.2.1 Program Survey

During Year 10, 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) ,Year 9 (1 Response), and Year 10 (0)], 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 4-10, 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) ,Year 9 (16 Responses) and Year 10 (13). In Year 11, the COS will continue to promote taking the stormwater survey on the City's website and through direct mailers or by other means suitable to the target audience,

3.1.2.2 Event Participation

The public did participate and visit the stormwater display booth at the Buellton BBQ Bonanza, COS State of the City and the Santa Ynez Valley Open Streets. The number of visitors and surveys completed were as follows: Buellton BBQ Bonanza (100 Visitors, 12 Surveys), State of the City (13 Visitors, 1 Surveys/Quiz) and Santa Ynez Valley Open Streets (55 Visitors, 20 Surveys).

3.1.2.3 Interested Parties Sign-up

The COS did have 6 interested Parties Sign-up at the State of the City. The COS did not have any interested Parties Sign-up via the City's Stormwater Management webpage. The COS 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 7 out of 12 site investigations/complaints associated with potential or confirmed Nutrient related discharges during Year 9. As a result of these 7 nutrient related investigations/complaints, the COS issued 4 verbal warnings, 5 stormwater outreach), 4 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 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 11, the COS will also continue to promote the on-line Solvang Restaurant Survey via the City's website despite having a lack of participation and will promote the survey through the City's Water Bill Insert. The COS will also be sending a copy of the updated Restaurant's Guide to BMPs via a direct mailer to all Restaurants at the time of issuance and/or prior to the end of reporting year.

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 42,000 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 10, the Maintenance Staff attended pollution prevention and good housekeeping training on June 29, 2023, with an additional refresher training scheduled on July 12, 2023, and July 20, 2023, for staff who could not make the original training date.

All 13 Existing City Staff completed a 5 Question Quiz for each BMP Video (Housekeeping, How to Protect Storm Drains, Erosion & Sediment Control, How to Install Fiber Rolls) shown as part of the Biennial Training. Based on the completed quizzes from 13 Existing City Staff the annual assessment demonstrates a general understanding of Pollution Prevention and Good Housekeeping BMPs by the 96% average percentage correct.

During the training, the Staff reviewed the City's Operation and Maintenance (O&M) Activities Assessment Procedure and took part in an exercise to complete an O&M Activities Assessment Inspection Form.

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 were 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 requirements 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 split 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.

During Year 10, the Santa Barbara County Project Clean Water did identify a new high density residential location for sampling as part of the 303(d) sampling program; and subsequently sampled from the location during the reporting year.

3.2 SEDIMENTATION / SILTATION (Total Suspended Solids)

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

3.2.1.1 Brochure Distribution

During Year 10, the number of education and outreach materials distributed through stormwater brochure displays at the City facilities (City Hall, and Planning Department) including direct

interactions with applicants visiting the Planning Department Counter related to Sediment include:

BMP Guides: 17 Construction Industry's Guide to BMPs

Brochures: 3 Prevent Soil Erosion on Your Property – A Homeowner's Guide to Erosion Control.

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: On January 1, 2022, the City's website platform was changed from Civic Plus to Google Analytics. With this change, the City has been unable to recreate a new Website Hits/Download Report that disseminates the information in a format that provides the differentiation for the number of hits or downloads of each of the BMP guides, brochures and posters Sediment related outreach materials received during the reporting year. The City is actively working to recapture this capability through working with the City's IT/website contractor and through staff training.

During Year 10, the COS's website maintained the following Sediment related outreach materials:

BMP Guides: Construction Industry's Guide to BMPs (English and Spanish)

Brochures: Prevent Soil Erosion on Your Property – A Homeowner's Guide to Erosion Control

Posters: EPA's Stormwater and the Construction Industry Poster.

In Year 11, the COS will continue to maintain weblinks to additional resources on the City's Stormwater Management website to the Santa Barbara County Project Clean Water and California Stormwater Quality Association.

3.2.1.3 Construction Outreach

During Year 10, the COS to maintain connections to construction contractors through monthly inspections that are designed to ensure BMPs have been maintained, evaluate the effectiveness of the BMPs installed and to verify that pollutants have not discharged into a receiving water body.

In addition, the City continued to forward Free Training Opportunities to 44 Project Developers, Designers, Engineers, Architects, and/or Landscape Architects that are known to work within the City of Solvang. The free virtual training opportunities included:

(1) April 27, 2023 – Monterey Regional Stormwater Management Program, Post-Construction Stormwater Training
(2) May 18, 2023 – Monterey Regional Stormwater Management Program, How to Maintain Bioretention Facilities

(3) June 6, 2023 - San Luis Obispo, Draft Post-Construction Stormwater Guide Review

In Year 11, the COS continues to forward training/workshop information to construction site operators when opportunities become available. In addition, the COS will also be sending a copy of the updated Construction Industry's Guide to BMPs via email to all Construction Site Superintendent/Representative, Property Owner/Legally Responsible Person, Project Engineer of Record, Qualified SWPPP Developer. Qualified SWPPP Practitioner for construction projects active by the time of issuance.

3.2.1.4 Permittee Staff Training

There was 2 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. Based on the completed quizzes from 2 Contract Staff who conduct Plan Review, the Staff demonstrated an understanding of the training topic via a 95% average percentage correct. The 1 Contract Staff conducting inspections demonstrated an understanding of erosion and sediment control via a score of 100%.

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

During Year 10, there were 4 site investigations associated with sediment related discharges (2-Construction; 1 Residential; 1 Unknown Responsible Party that discharged soil onto Alamo Pintado a& Mission which was cleaned up by Caltrans). 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 10, the COS issued 0 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 1 Stormwater Control Plan As Built.

3.2.3.2 Construction Site Inspections/Enforcement

The COS inspected 4 construction sites monthly during Active Construction. Two (2) of the 4 construction sites transitioned from an active construction inspection to a following active construction inspection and will continue to be inspected monthly until such time, the project is deemed closed. The project status of the 5 construction sites are as follows: On-Hold (Pending-No Soil Disturbance)-1, Active Construction-2, and Closed-2. In total, the COS conducted 0 Prior to Land Disturbance (during rainy season) Inspections, 28 Active Construction Inspections, 6 Following Active Construction Inspection.

In Year 11, 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 10, all 4 construction sites received discretionary/ministerial approval after March 6, 2014. All 4 construction projects were required to develop a SWCP to comply with PCR Measures. All 4 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 10, 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 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 Standard Operating Procedure (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 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 10, the COS was able to perform 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 availability of staff with confined space training or that could operate the vactor truck. The City was able to clean high priority areas that did not require vactor trucks or confined space entry restrictions. In total, the COS inspected 84 of 86 catch basin, inlet and drainage structures deemed high priority within the priority land use area. Two (2) of these structures were not inspected due to structure access issues (lid would not open) and required further evaluation by City Staff.

Since the inspections were completed, the COS re-evaluated all priority land use areas to confirm all catch basin, inlet, and drainage structures within those areas. This evaluation provided the City the opportunity to modify its GIS database to assign an attribute to all catch basins that meet the criteria of High Priority. This attribute designation has allowed the city to redefine its inventory to identify high priority structures that require annual inspection and maintenance (if needed).

Through a re-evaluation, it was determined that the COS has 80 high priority catch basins located within the designated priority land use areas. Following this determination, the COS incorporated an inventory of high priority catch basins within the Storm Drain System SOP. In addition, the COS also replaced the High Priority Infrastructure Map within the Storm Drain System SOP with a series of Storm Drain Maintenance Atlas Maps which identify each of the locations of the high priority catch basins. The Storm Drain System SOP modifications will assist City Staff with assessing and prioritization of inspections and maintenance activities.

In Year 11, the City will be inspecting all high priority structures and will conduct and/or coordinate maintenance activities as needed. Public Works Staff has now received the requisite confined space training necessary to complete the maintenance and cleaning.

3.2.5.3 Hotspot Inspections

The COS does not have any “Confirmed” or “Severe” Hotspot” that required quarterly inspections. During Year 10, 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 were 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.

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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.

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In Year 10, the Santa Barbara County Project Clean Water did identify a new high density residential location for sampling as part of the 303(d) sampling program; and subsequently sampled from the location during the reporting year.

4.0 SHORT- AND LONG-TERM PROGRAM EFFECTIVENESS

During Year 10, 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 maintains 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 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

Our Water Our World

Annual Report

California Stormwater Quality Association

CASQA
CALIFORNIA STORMWATER
QUALITY ASSOCIATION®

August 2023

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 cities, 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 36 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 Principles 1 and 3 of *CASQA's Vision for Sustainable Stormwater Management.*[1]

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 CASQA with support from Suzanne Bontempo.

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) is an award-winning partnership between municipal 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 Central 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 2022 and June 2023.

Section 2. Program Elements

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

2.1 INTEGRATED PEST MANAGEMENT (IPM) ADVOCATES

IPM Advocates are individuals who have been trained on how to engage with retailers and the public. They provide local implementation of the program on behalf of participating agencies. Local implementation generally consists of coordinating with participating retailers to provide in-store displays, shelf tags, in-store presentations and training, and advice to customers about pest management methods that are healthier for people and the environment. Additionally, IPM Advocates receive annual continuing education and training.

2.2 EDUCATIONAL MATERIALS

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

- Fact sheet displays near pest products to educate the public on a wide range of pest management topics.
- Shelf tags to guide customers to less-toxic products.
- Display posters with QR codes linking directly to the OWOW website and fact sheets.

[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, 2022. Water Quality (WQ) Order R2-2022-0018-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.

On the OWOW website, consumers can view the following:

- All 18 fact sheets.
- Stores participating in the OWOW program.
- Lists of less-toxic products and active ingredients.

2.3 TRADE SHOWS

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

Section 3: Partnerships

The program is 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 trained individuals that support local implementation of the OWOW program. They provide retail stores, nurseries, hardware stores, and garden centers direct to consumer information on integrated pest management tools, products, and practices. IPM Advocates are the link between the municipalities and the retailers where they reach consumers. 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 IPM 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, using municipal staff or other contractors. Implementation may occur 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 inform residents about the OWOW program. Table 1 provides the list of agencies implementing OWOW as of June 30, 2023. Bay Area Clean Water Agencies (BACWA) continue to support the OWOW program as a sponsor.

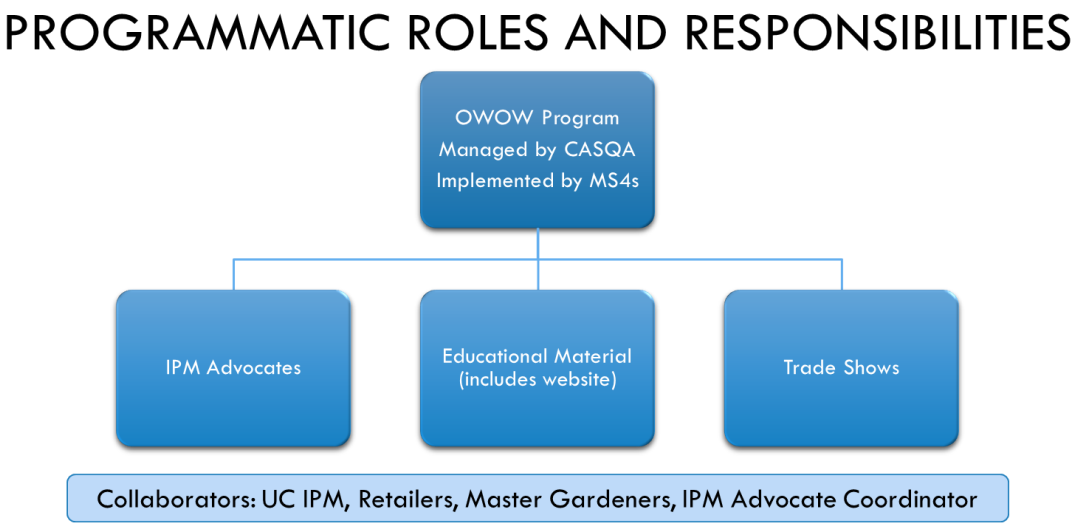


Figure 1. OWOW Program Roles and Responsibilities

Table 1. 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

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

Valley Water (Santa Clara Valley Water District)

Zone 7 Water Agency

Central Valley

Butte County

City of Ceres

City of Davis

City of Dixon

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

The following OWOW outreach services were conducted between July 2022 and June 2023.

4.1 IPM ADVOCATES

After training by the University of California IPM Program, IPM 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 IPM Advocates and store management and staff are key to the successful promotion of less-toxic, eco-friendly projects.

IPM Coordination

Ms. Bontempo held regular IPM Advocate coordination meetings to communicate updates on new pests and new pest management techniques.

4.2 EDUCATIONAL OUTREACH MATERIALS

Educational materials include fact sheets for specific pests, gardening and pesticide applications, shelf tags to identify eco-friendly products in stores, and the OWOW website that makes the material accessible to the public. Examples of OWOW outreach materials are provided in Appendix A.

Fact Sheets

There are 18 OWOW fact sheets available, including four (4) available in Spanish. Starting in January 2022, posters with trackable QR codes were made available in the pesticides aisle to encourage consumers to digitally access the OWOW fact sheets. The trackable QR codes record which fact sheets are viewed by consumers in retail stores. According to the data from the QR code posters, between July 2022 and June 2023, the three most viewed fact sheets were 'Ants,' 'Rats and Mice,' and 'Moles, Voles, and Gophers.' Table 2 presents a summary of QR code scans for each fact sheet. Additionally, Figure 2 shows the frequency of QR code scans per month for the reporting period.

Website

The OWOW website provides public access to the fact sheets, the less-toxic product list, and the Store Finder, which is an interactive map to search for participating stores. Updates to the Store Finder are made on a quarterly basis. During the 2022 – 2023 reporting year, 39 stores were added to the OWOW program and made available on the Store Finder.

Store-based Product Lists

The store-based product lists provide the current lists of the eco-friendly products that Home Depot 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 product lists are reviewed, and updates are made as needed in consultation with subject matter experts. Appendix B provides the product lists for 2023.

Table 2. QR Code Scans by OWOW Product from July 2022 to June 2023

OWOW Product	QR Code Scans
OWOW Website	145
Ants	268
Aphids	152
Bed Bugs	73
Cockroaches	161
Fleas	143
Healthy Gardens	72
Hiring a Pest Company	13
Lawns	20
Moles Voles Gophers	263
Mosquitoes	140
Pesticide Use & Disposal	24
Pesticides & Water Quality	11
Rats & Mice	213
Roses	106
Snails & Slugs	118
Spiders	89
Weeds	59
Yellowjackets	54
Spanish Fact Sheets	30
Total	**2,154**

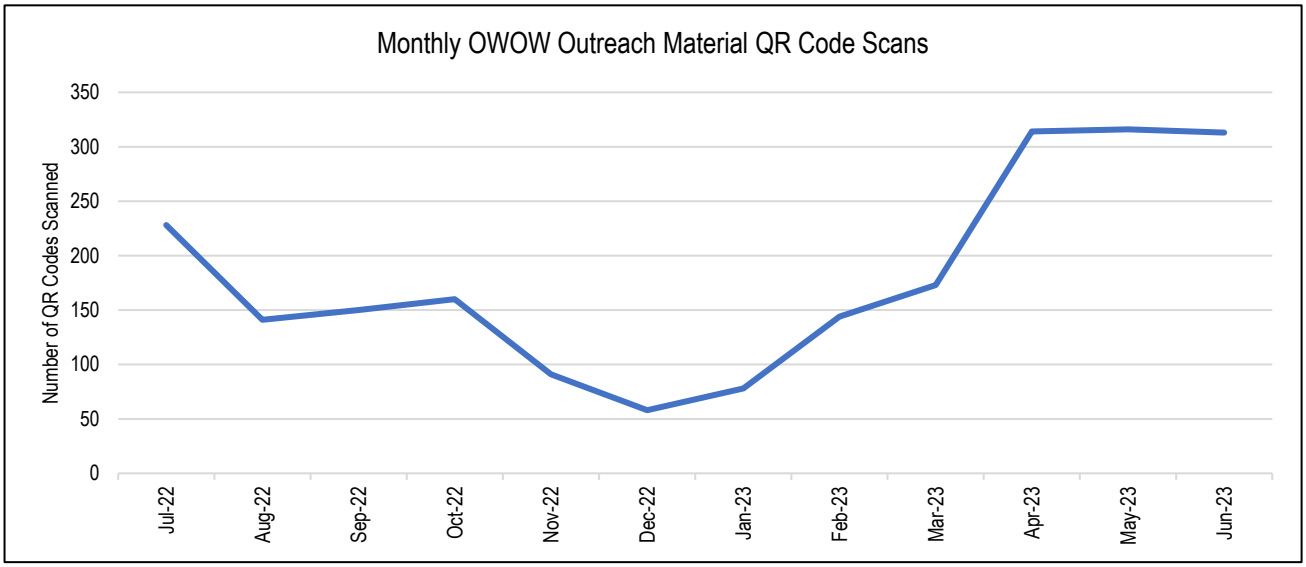


Figure 2. Monthly OWOW Outreach Material QR Code Scans between July 2022 and June 2023

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 led collaboration with key retail partners. During the past year, she maintained OWOW's relationship with the Home Depot Corporate Sustainability Officer and communicated quarterly to Home Depot Corporate to keep goals aligned and to provide 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 (see Appendix C). Home Depot Corporate is a model retailer partner and OWOW strives to replicate this partnership with other retailers and vendors. In 2023, a successful collaboration with Outdoor Supply Hardware (OSH) led to bringing 11 of the 14 OSH stores into the OWOW program. Including these OSH stores, 39 new retailers, primarily from the Central Valley region, joined the OWOW program between July 2022 and June 2023. These additions, from counties Alameda, Butte, Contra Costa, El Dorado, Fresno, Los Angeles, Mendocino, Napa, Placer, San Joaquin, San Mateo, Santa Barbara, Santa Clara, Sonoma, and Stanislaus, demonstrate the expanding reach of the OWOW program.

Vendor Communication

Established relationships with national pesticide manufacturers and annual communication with vendors is essential to learn about new pesticide active ingredients, products, and market trends. Key vendors have reported many obstacles in 2023 as follows:

- Supply chains are still straining product supply.
- Consumers continue tend to purchase less plants and related products.
- Consumer expendable cash flow is less available due to inflation and fuel cost.

Trade Show Booths

Attending trade shows provides an opportunity to meet vendors, learn about the new products coming to the California marketplace, answer questions, and provide mentorship to the retail buyers. In 2022 – 2023, OWOW representatives attended the following trade show events:

- BFG Marketplace Expo, Reno NV, October 22 – Retailer Show
- Northern California Home & Landscape Expo, Sacramento CA, February 2023 – Consumer Show
- NorCal Landscape Trade Show, San Mateo, CA, February 2023 – Landscape & Garden Professional Show

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. Many 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 282 participating retailers throughout California. Table 3 provides a summary of outreach activities between July 2022 and June 2023. These activities were funded by the stormwater programs of local municipalities.

Table 3. Summary of Outreach Activities

Audience	OWOW Outreach Activity
Retailers	282 retailers participated in the OWOW program
	162 trainings conducted
	1,034 retail staff trained
Direct to Consumer	168 public outreach events
	15,532 people attended these public outreach events (In person and virtually)
	2,154 scans of QR Codes for OWOW fact sheets

IPM Advocates and other OWOW service providers conducted 154 trainings and trained 960 retail store staff. The training topics include IPM and strategies for managing pest problems with less-toxic and eco-friendly products. 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 additional digital support, which included a biannual retailer e-newsletter, along with online webinars and social media posts aimed at the public.

Retailer e-Newsletter

A biannual newsletter is emailed to participating retailers at the beginning of spring and fall. This newsletter contains information on seasonal pest problems and eco-management solutions. These newsletters help store staff, including managers, stay current on pest problems that might be affecting their customers. Many of the managers print the OWOW newsletter and post it for all staff to review. Out of the 282 retailers, 161 retailers receive the e-newsletter.

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.

Outreach Barriers

Many retailers continued to be impacted by supply chain challenges and inventory and labor shortages, which led to delays in scheduling retailer trainings and setting up shelf displays. Additionally, many of the retail trainings and public outreach events were further delayed until April due to the prolonged wet weather during the first half of 2023

Section 5. Program Development

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

5.1 UPDATES IN PROGRESS

Fact Sheets and Pocket Guide

In 2023, four fact sheets and the pocket guide are undergoing review for technical accuracy by subject matter experts. The fact sheets undergoing review include Ants (both English and Spanish), Yellowjackets, Pesticides and Water Quality, and Fleas. The revised fact sheets will be made available to OWOW subscribers in Fall 2023. Additional fact sheets will undergo review in 2024.

Universal Product List

The Universal Product List is an Excel spreadsheet that modifies the existing store-based products lists with added functionality for sorting products by pest, product name, brand, and active ingredient. The Universal Product List will first be made available to IPM Advocates and subscribing agencies. A future consideration is transforming the spreadsheet into a user-friendly database available on the OWOW website so consumers could have an easier time finding less-toxic products for their pest problems.

5.2 FUTURE CONSIDERATIONS

Implementation and Guidance Handbook

To bring consistency to the OWOW program's implementation, the *Implementing an IPM Partnership: A How-To Manual* dated March 2000, will be revised to describe current practices and responsibilities for OWOW subscribing agencies, IPM Advocates, and participating retailers. The primary goal of the Implementation and Guidance Handbook is to describe the core elements of local implementation, establish an annual reporting schedule, and provide consistency in retailer trainings, materials, displays, and communication.

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 an IPM Advocate Training Program. As part of this initiative, CASQA intends to work with and potentially partner with Department of Pesticide Regulation (DPR). CASQA will coordinate workgroups comprised of OWOW Subscribers, current IPM Advocates, and training experts to develop a framework for the IPM Advocate Training Program.

Appendix A – Example Outreach Materials

Figure A1. 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 A2. Ant Fact Sheet

OWOW Retail Newsletter Spring 2023 Edition

Spring garden pests that love cool, rainy spring weather

With the abundance of rains this season, we are also seeing an abundance of rainy season garden pests, such as slugs, earwigs, mushrooms, weeds, and assorted plant diseases. Here we will review management tips that you can share with your customers.

1) Slugs & Snails -
Remind customers to remove any soggy or rotting leaves from the plant, clear the base of the plant removing any debris to ensure the crown is clear.
Though eco-friendly slug & snail baits containing iron phosphate are favorable, they will dissolve with rainy conditions. Exclude slugs & snails by placing a barrier of copper tape around plants.
Placing chunky bark mulch around slug & snail prone plants will reduce their activity as they are less likely to cross the chunky bark mulch.
After the rainy season when irrigation systems are on, avoid watering at night which favors slug & snail activity. Advise your customers to water during the sunrise hours; 4am-7am is best for the overall health of the garden.
You can read more about slug & snail management here.

2) Earwigs -
Insecticides are typically not effective for earwig control. Make a trap! You might sell earwig traps or you can coach folks on how to make a simple trap as shown on the UCIPM website.
Though earwig baits containing iron phosphate & Spinosad are available, they will dissolve with rainy conditions. Best to wait until the rains stop before using.
After the rainy season when irrigation systems are on, avoid watering at night which favors slug & snail activity. Advise your customers to water during the sunrise hours, 4am-7am is best for the overall health of the garden.

3) Mushrooms -
We will have more customers asking about how to remove mushrooms from their lawn or garden areas. Mushrooms often are a sign of a healthy garden environment and commonly appear in moist soils after the rain or with frequent irrigation. They are short lived and will disappear on their own. Careful handling and proper identification are important when making decisions about removing mushrooms in the garden. You can find more information here on the UC IPM mushroom page.

4) Weeds
Keep weeds in check. Best management is to remove with tools or hand pull when they are young, once the soil has dried enough to walk on. Mow or trip taller weeds or use grazing animals. Take advantage of the benefits sheet mulching offers. There are many effective eco-herbicides available. Always read the label and apply according to that label. Avoid letting weeds go to seed.
You can find eco-friendly herbicides and more about managing weeds here.

5) Plant diseases-
There is a good chance we will see an abundance of plant diseases due to the cool, wet spring weather. Proper identification is key to pest management. The UC IPM website can help with identification. Look up the plant and then from there you will find a list of pests common to that plant. From there you will find the information that will assist with managing the plant disease.

Figure A3. Spring e-Newsletter Page 1

Appendix B – 2023 Product Lists

2023 Home Depot Product List

Pesticide Bays

Amdro Gopher Traps
BioAdvanced Organics Houseplant Insect & Mite Control
BioAdvanced Organics Tomato, Vegetable & Fruit Insect Control
Bird-B-Gone Stainless Steel Bird Spikes
Black Flag Handheld Bug Zapper
Black Flag Pantry Pest Trap
Black Flag Roach Motel
Bonide Cpt Jack's Copper Fungicide
Bonide Cpt Jack's Dead Weed Brew
Bonide Cpt Jack's Insecticidal Super Soap
Bonide Cpt Jack's Lawn Weed Brew
Bonide Cpt Jack's Neem Max 70%
Bonide Cpt Jack's Neem Oil
Bonide Cpt Jack's Orchard Spray
Bonide Cpt Jack's Rose Rx
Bonide Cpt Jack's Tomato & Vegetable
Bonide Mole Max
Bonide Repels All
Buggy Bands Mosquito Repellent
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 2
EcoLogig Flying Insect Killer
First Saturday Lime Insect Repellent
Fly Swatter
Garden Safe Fungicide 3
Garden Safe Houseplant & Garden
Garden Safe Insecticidal Soap
Garden Safe Multi Garden Insect
Garden Safe Neem Oil Extract
Garden Safe Rose & Flower
Garden Safe Slug & Snail
Gopher Traps
Green Gobbler 20% Vinegar Weed Killer
Harris Diatomaceous Earth
Harris Roach Killing Powder
Harris Roach Tablets
Havahart Live Animal Trap
Hot Shot Bed Bug Killer Dust
Liquid Fence Deer & Rabbit Repellent
Monterey Nematode Control
Mosquito Dunks
Mouse Traps
Mouse X
Organiocide Bee Safe 3-in-1 Garden Spray
Ortho Bed Bug Trap
Ortho Ground Clear Weed & Grass Killer (green label)
Owl, Garden Defense
Preen Natural Weed Prevent
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 Yellow Jacket Trap
Rescue Yellow Jacket Trap Cartridge
Rescue Yellow Jacket Trap Refill
Safer Brand Ant, Roach & Spider Killer
Safer Brand Diatomaceous Earth Crawling Insect Killer
Safer Brand Home Indoor Pest Control
Safer Brand Home Multi-Insect Killer (DE)

Safer Brand Indoor Fly Trap
Safer Brand Indoor Fly Trap Refills
Safer Brand Snake Shield
Sevin 2-in-1 Sulphur Dust
Skunk Scram Repellent Granules
Southern Ag Thuricide Bt
Terro Fruit Fly Trap
Terro Liquid Ant Bait II
Terro Liquid Ant Killer II
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 Tree Wound
Uncle Ian's Dog & Cat Repellent

Fertilizer Bays

Alaska Fish Plant Food 5-1-1
Bonnie Harvest Select Raised Bed Plant Food
Dr Earth Lawn Food
Dr. Earth Fertilizer
Earthworm Castings
Espoma Organic Fertilizer
Espoma Organic Lime
Espoma Organic Soil Acidifier
Kellogg Organic Plus Fertilizer
Mater Magic
Miracle-Gro Fertilizer Spikes Tree & Shrub
Monterey Fish & Guano Fertilizer
Osmocote
Pennington Epson Salts
Vigoro Fruit, Nut &Citrus Fertilizer Spikes
Vigoro Tree & Shrub Fertilizer Spikes
Uncle Ian's Mole, Gopher, Deer, & Squirrel Repellent
Victor Electric Mouse Trap
Victor Electric Rat Trap
Victor Gopher Traps
Victor Mouse Traps
Victor Natural Rodent Repeller Packs
Victor Rat Traps
Victor Rat-A-Way Rat & Mouse Repellent
Weed Block Landscaping Fabric
Weed Control Fabric
Zevo Ant, Roach & Spider
Zevo Fly, Gnat & Fruit Fly
Zevo Flying Insect Trap
Zevo Flying Insect Trap Refills
Zevo Multi Insect
Zevo Wasp, Hornet, & Yellow Jacket

2023 ACE Hardware Product List

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
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 20% Vinegar Weed Killer
Harris Bed Bug Killer Diatomaceous Earth
Harris Boric Acid Roach Powder
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

Appendix C – The Home Depot Support Letter

Interoffice
MEMORANDUM

DATE: January 1, 2023

TO: California Store Managers, D28 ASMs and Department Heads

FROM: Ron Jarvis

CC: Steve Knott, Scott Jacobson

SUBJECT: Our Water Our World training

OUR WATER, OUR WORLD is a coalition of organizations whose purpose is to encourage consumers to use less toxic pest controls in and around their homes. They specialize in retail friendly education. Their goal is not to alienate consumers by telling them what they can't use, but instead their information focuses on less toxic pest management and ties into products currently on our shelves.

An Our Water, Our World (OWOW) representative will be in your store to help train employees and label less-toxic products with shelf-talkers. The representative may also schedule a tabling event to educate consumers. This ties in well with "How-to" weekend events. The representative will display a sampling of excellent less toxic and Eco Options products off our shelves. They will provide free informational literature and a wealth of knowledge and experience. Please enjoy this additional help in your store.

A representative will contact you before the training or demonstration date to arrange details. Please contact Suzanne Bontempo at (415) 317-0475 if you have any questions.

Thank you

Ron Jarvis

from the desk of.....
Ron Jarvis
Merchandising Vice President – Sustainability
THE HOME DEPOT USA, INC.
2455 Paces Ferry Road
Atlanta, GA 30339
(770) 384-4835
Fax (770) 384-4411

Figure C1. 2023 The Home Depot Support Letter

OUR WATER — OUR WORLD

Our Water Our World Retail Partnership Program
IPM Outreach & Education Services

For the County of Santa Barbara and the Cities of Buellton, Carpinteria, Goleta, Santa Barbara, Santa Maria, and Solvang

Report prepared by Suzanne Bontempo, Plant Harmony

The Home Depot Store, Santa Maria
Garden Department Supervisor, the Store Manager, the Assistant Store Manager for Garden

The Home Depot Store, Goleta
Garden Department Lead Associate

Santa Barbara Home Improvement Store
Garden Department Supervisors and a few of the Lead Garden Associates

Whispering Tree Nursery
Assistant Store Manager

Table of Contents

Matt Buckmaster, owner of Island Seed & Feed with team member Kathy Anne support the OWOW program

Program Overview

Overview

Our Water Our World (OWOW) is a public outreach program designed to reduce the use of toxic pesticides use and to reduce pesticide pollution in urban run-off. OWOW uses a point-of-purchase approach that educates and encourages retail nurseries, hardware stores, and home improvement stores that sell pesticides, to provide less-toxic, eco-friendly products for their customers. In addition, the OWOW program provides Integrated Pest Management (IPM) educational Fact Sheets for the public. By promoting the use of less toxic products around the home and garden can lead to a reduction of pollutants in our local creeks, and local waterways, as well as a healthier environment for the public.

The OWOW program meets the National Pollutant Discharge Elimination System (NPDES) stormwater permit requirements that require municipalities to have a program in place to educate the public on IPM.

County of Santa Barbara and the City partners sponsor the OWOW program retail partnership to provide IPM educational services to sixteen (16) Home Improvement Centers, Hardware Stores, and Garden Centers throughout the county. The Outdoor Supply Hardware (OSH) became the newest retailer to join the OWOW program partnership in March 2023.

Tasks completed for this contract included:

- Program introductions after the 3-year pause due to the Covid-19 pandemic.
- Provide an OWOW training for the associates at each retailer.
- Set up the program at the OSH and place shelf talker tags at retailers if needed per the approval of the City partner.

OWOW Retail Partners

This is the list of the OWOW Retail Partners as of April 2023:

Buellton

1. Farm Supply Co., 700 McMurray Road
2. Windmill Nursery, 925 W Hwy 246

Carpinteria

3. Site One Landscape Supply (All Around Landscape Supply), 4760 Carpinteria Avenue
4. Carpinteria Valley Lumber, 915 Elm Street

Goleta

5. The Home Depot Store, 6975 Marketplace Drive
6. Island Seed and Feed, 29 S. Fairview Avenue
7. Miner's Ace, 125 N. Fairview Avenue

Orcutt

8. Whispering Tree Nursery, 110 Norris Street

Santa Barbara

9. La Sumida Nursery, 165 S. Patterson Avenue
10. Santa Barbara Home Improvement Center, 415 Gutierrez Street
11. Terra Sol Garden Center, 5320 Overpass Road

Santa Maria

12. Farm Supply Co., 1029 N. Broadway
13. The Home Depot Store, 2120 S. Bradley Road
14. Outdoor Supply Hardware, 1950 S. Broadway

Santa Ynez

15. Site One Landscape Supply (All Around Landscape Supply), 3588 Madera Street

Solvang

16. Valley Hardware and Garden Center, 1665 Mission Drive

Program Components

Program Administration

Communications with the retail stores began in October 2022 by first contacting the upper management teams at both the OSH and the Home Depot stores when they requested that the trainings occur soon after the new products arrive to the pesticide aisle. In February I began to contact the key associate each retailer, starting with the Home Depot Store Manager, the Assistant Manager, the Garden Department Supervisor, and the Scheduler. The Home Depot Stores schedule trainings a month prior to the date. Once a date and time was scheduled for the associate trainings at both Home Depot Stores, I then contacted each of the other retailers to schedule a date and time for their training. Scheduling a training date and time at for each retailer did involve several calls and email exchanges as to accommodate each retailer with a date and time that fit their needs.

Once a schedule was set, I provided Adam Goodrich, County of Santa Barbara with the schedule of trainings so that the City Representatives could be informed. Several City Reps then contacted me to share that they would be joining the scheduled retailer training.

I also took this time to prepare the OWOW training folders, to prepare OWOW QR Code retailer signage, to gather bilingual UC IPM pest management resources & bilingual Bay Friendly Sustainable Landscaping materials for each retailer. I also coordinated with Sean Casey to order an OWOW rack and materials for the new OSH store set up so that these materials would be ready for pick up when I arrive.

List of Key Retailer Contacts

Buellton

1. Farm Supply Co: SM - Maggie Robles, (805) 688-8101

2. Windmill Nursery: Owner - Bob, windmillbob@gmail.com (805) 688-3993

Carpinteria

3. Site One Landscape Supply (All Around Landscape Supply): SM - Poncho Renteria, arenteria@SiteOne.com (805) 684-3115
4. Carpinteria Valley Lumber: Owner - Marilyn Minteer, marilyn@carpinteriavalleylumber.com (805) 684-2183

Goleta

5. The Home Depot Store: ASM Cynthia Ramirez, (805) 961-4746
6. Island Seed and Feed: Owner - Matt Buckmaster, (805) 967-5262
7. Miner's Ace: SM - Will, opsgo@minnershardware.com (805) 679-5185

Orcutt

8. Whispering Tree Nursery: SM - Marian, (805) 937-3808

Santa Barbara

9. La Sumida Nursery: SM Nicole, nursery@lasumida.com (805) 964-9944
10. Santa Barbara Home Improvement Center: OM - Tom Richards, (805) 963-7825
11. Terra Sol Garden Center: Owners - Margaret and Mike, (805) 964-7811

Santa Maria

12. Farm Supply Co.: SM Rhonda, rporter@farmsupply.com (805) 922-2737
13. The Home Depot Store: ASM Carlos, (805) 739-1141
14. Outdoor Supply Hardware: SM Andrew, andrew.rodriguez@outdoorsupplyhardware.com (805) 357-5020

Santa Ynez

15. Site One Landscape Supply (All Around Landscape Supply): SM- Felipe, sroman2@siteone.com (805)693-9333

Solvang

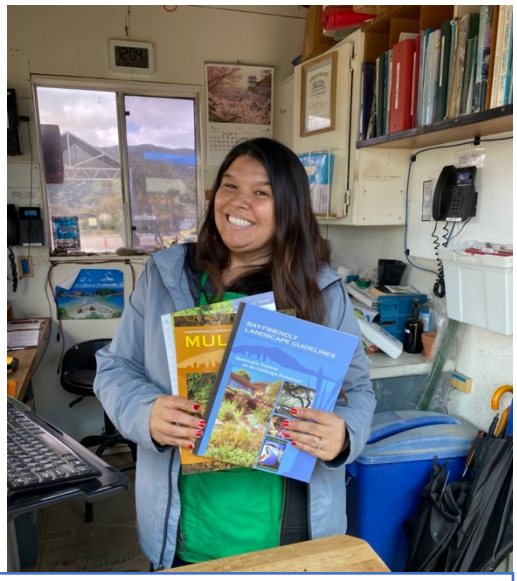
16. Valley Hardware and Garden Center: Owner - Ben, benverkler@gmail.com (805) 688-4191

During my 9 days of providing OWOW services to these retailers, I spent time at each retailer providing introductions, discussing OWOW program updates, showing each how to use several of the bilingual pest management tools by OWOW & UC IPM, and to learn what resources they would like and how the program could better support them. I made myself available to answer questions about products that the management teams had and made suggestions about eco-friendly pesticide alternatives. I also answered any pest questions that their customers had, directing all to eco-friendly solutions available for sale at that retailer.

Each retailer received a copy of these publications to further assist with IPM for pest issues commonly asked about by the consumer.

Educational materials were:

- The Bay Friendly Landscaping Guidelines publication: Sustainable Practices for the Landscape Professional – 2 copies in Spanish for the Site One Landscaping Supply Company
- The Bay Friendly Guide to Mulch
- Gardening for Wildlife with Native Plants, a Bay Nature Publication
- QWEL – Qualified Water Efficient Landscape Training



Juan from Site One, Santa Ynez, Tina from Windmill Nursery, Buellton
Ben from Valley Hardware & Garden, Solvang and Josh from Terra Sol, Goleta
with additional resources for sustainable pest management

I met with several agency staff members during my scheduled store visits. Andrea Dransfield and Melissa Nelson, City of Goleta, joined the Home Depot store training. Adam Goodrich, County of Santa Barbara, joined the La Sumida Nursery training. I invited each to provide introductions and to expand on the importance of their relationship with OWOW program and the direct connection with that city and county. Each of these representatives had favorable feedback about the OWOW training after attending.

Meeting with each of the representatives, including those I met with who were unable to attend a scheduled training, provided me with wonderful insights about the program and the challenges each had with communicating with the retailer, maintaining the program's point of sale materials, the OWOW tools that were or weren't available to them. These insights were tremendously valuable, valid, and greatly appreciated.

Melissa Nelson and Amanda Dransfield
joining the Home Depot Store, Goleta OWOW Training

Retailer Trainings

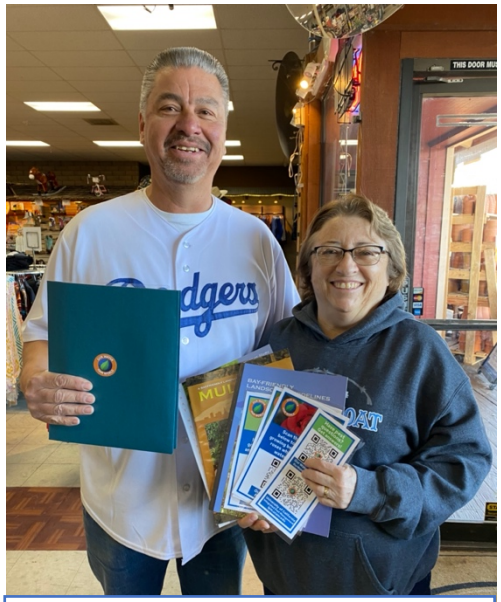
Each retail store in the partnership received an OWOW retailer training. The OWOW trainings are designed to educate the associates about storm water runoff, where the local HHW facility is located, their role in reducing problem pesticide usage, the principles of IPM, how to read a pesticide label, the less toxic pesticides their store sells, proper usage of these pesticides, current pest problems and less toxic solutions for these problems for their customer. These trainings also provide suggested alternatives to their customers to manager their gardens sustainably with the intent to reduce the toxic pesticides and fertilizers that so easily can get into the waterways.

A total of eighty-four (84) associates received the training. Each associate received a training folder that is stocked with reference materials, pest problem solving for the common seasonal pests they are asked about, OWOW Fact Sheets, Pest Identification key, and UCIPM Pest Notes for some of the current pest problems. Pre & Post Training Surveys were provided to each attendee.

Topics covered in the trainings:

Training associates at the Home Depot Store, Santa Maria

- Pesticides that are water pollutants of concern
- OWOW Store Partnership Program overview
- Where to dispose of HHW in Santa Barbara County
- How less toxic products work
- The principles of IPM
- Beneficial Insect Identification
- Water Conservation
- Benefits of Mulch
- How to mix a pesticide from concentrate
- Pest highlights: ants, cockroaches, yellowjackets, aphids, weeds, rats, mice, citrus leaf miner, slugs & snails, whitefly, fungal diseases, and how improving the overall health of the garden with compost and organic fertilizers/reduce over fertilizing with synthetic fertilizers as they increase pest problems.
- Invasive pest awareness: Spotted Lantern Fly and Asian Citrus Psyllid
- OWOW website and the UCIPM website
- Resources available in Spanish



Providing Rhonda & Greg at the Farm Supply Co, Santa Maria with a training

Resources Training Folders

An OWOW training folder is provided to each trainee. Each folder includes:

- The Mac's Field Guide Good Garden Bugs of California
- Monthly Pest Calendar
- The DPR's 'How to read a pesticide label'.
- How less-toxic products work.
- List of websites, books, and catalogs on a resource sheet.
- Lose Your Lawn the Bay-Friendly Way sheet mulching instructions.
- How to Apply Beneficial Nematodes
- 'Ten Tips for Waterwise Gardening'
- 'Protecting Plants During a Drought'
- Information on pest problem solving for the following pests: spider mites, lifecycle of grubs, whiteflies, spider mites, citrus leaf miner, Asian Citrus Psyllid, 'Keep Spotted Lantern Fly Out of CA' campaign brochure.
- A one sheet informational handout on 'Keeping Rats & Mice Out'
- A one sheet informational handout on 'Rats in the Garden'
- '10 Most Wanted Bugs for Your Garden' brochure.

- The UCIPM Retailer Nursery & Garden Center IPM Newsletter
- OWOW pocket guides
- UCIPM Quick Tips in English and in Spanish for Beneficial Predators, Leaf Eating Caterpillars, Thrips, Mealybugs, Powdery Mildew, and other assorted pest topics.
- Samples of assorted OWOW Fact Sheets

Trainings conducted:

Date of Training	Store Name	Location	Number Trained
3/27/23	Outdoor Supply Hardware	1950 S Broadway, Santa Maria	6
3/28/23	The Home Depot Store	6975 Marketplace Dr, Goleta	10
3/28/23	Miner's Ace	125 N Fairview, Goleta	7
3/29/23	Terra Sol	5320 Overpass Rd, Santa Barbara	2
3/29/23	Windmill Nursery	925 W Hwy 246, Buellton	3
3/29/23	Site One Landscape	3588 Madera St, Santa Ynez	2
3/30/23	Farm Supply Co	1920 N Broadway, Santa Maria	3
3/30/23	The Home Depot Store	2120 Bradley Rd, Santa Maria	12
3/30/23	Farm Supply Co	700 McMurray Rd, Buellton	3
3/31/23	Whispering Tree Nursery	110 Norris Street, Orcutt	2
3/31/23	Valley Hardware & Garden Center	1655 Mission Drive, Solvang	6
4/1/23	Island Seed & Feed	29 S Fairview Dr, Goleta	5
4/3/23	La Sumida Nursery	165 S Patterson, Santa Barbara	5
4/3/23	Santa Barbara Home Improvement	415 E Gutierrez, Santa Barbara	11
4/4/23	Carpinteria Valley Lumber	915 Elm St, Carpinteria	3
4/4/23	Site One Landscape	4760 Carpinteria Ave, Carpinteria	4

Providing Marilyn, owner of Carpinteria Valley Lumber and her Garden Department Assistant Managers with a training

Program Training Assessment

Summary of Store Training Pre-Training Surveys

A total of 16 trainings were conducted, 84 associates were trained, 53 pre-training surveys were returned. Here are the results of those surveys:

1)	**Are you familiar with the OWOW program?**
	a) Yes: **19%** b) No: **81%**
2)	**When does urban runoff occur?**
	a) When a sprinkler is broken & excess water is running into the street: **2%** b) During & after a rain event: **4%** c) From watering or irrigation overflows: **2%** d) All of the above: **92%**
3)	**Which of these pollutants can be carried into the waterways with urban runoff?**
	a) Motor oil & solvents: b) Pet waste, debris & litter: **2%** c) Pesticides & synthetic fertilizers: **4%** d) Household cleaning agents: **2%** e) All of the above: **90%** f) I'm not sure: **2%**
4)	**Storm drains, including the storm drains in parking lots & loading docks, flow directly to:**
	a) The sanitary sewer that goes to the wastewater treatment facility: **23%** b) The nearest creek, river, bay, or ocean: **51%** c) I'm not sure: **26%**
5)	**Are pesticides removed at the wastewater treatment facility?**
	a) Yes: **11%** b) No: **29%** c) I'm not sure: **60%**
6)	**What is the best way to dispose of unused household hazardous waste, including pesticides & fertilizers?**
	a) Bury them in the garden: b) Dump them into the trash: c) Pour them down the sink or flush down toilet: d) Take them to the local HHW facility: **100%**
7)	**Do you know where your local HHW facility is located?**
	a) Yes, they do: **36%** b) No, they do not: **64%**
8)	**Do your customers ask for eco-friendly solutions & less-toxic products that are safer for the environment?**
	a) Yes: **45%** b) No: **6%** c) Sometimes: **49%**
9)	**What is the highly effective, science-based strategy for controlling pests in the home/garden that also helps to protect our waterways from toxic pesticide pollutants?**
	a) Synthetic pesticide program: **8%** b) Homemade, D.I.Y. remedies & cures: **13%** c) IPM (Integrated Pest Management) Principles: **32%** d) I'm not sure: **47%**

Summary of Store Training Post-Training Surveys

A total of 16 trainings were conducted, 84 associates were trained, 53 pre-training surveys were returned. Here are the results of those surveys:

1) Are you familiar with the OWOW program
a) Yes: **98%** b) No: **2%**
2) When does urban runoff occur?
a) When a sprinkler is broken & excess water is running into the street: b) During & after a rain event: c) From watering or irrigation overflows: d) All of the above: **100%**
3) Which of these pollutants can be carried into the waterways with urban runoff?
a) Motor oil & solvents: b) Pest waste, debris & litter: c) Pesticides & synthetic fertilizers: d) Household cleaning agents: e) All of the above: **100%**
4) Storm drains, including the storm drains in parking lots & loading docks, flow directly to:
a) The sanitary sewer that goes to the wastewater treatment facility: b) The nearest creek, river, or storm basin: **100%**
5) Are pesticides removed at the wastewater treatment facility?
a) Yes: b) No: **100%** c) I'm not sure:
6) What is the best way to dispose of unused household hazardous waste, including pesticides & fertilizers?
a) Bury them in the garden: b) Dump them into the trash: c) Pour them down the sink or flush down toilet: d) Take them to the local HHW facility: **100%**
7) Do you know where your local HHW facility is located?
a) Yes, knew: **100% knew and listed location on survey.** b) No, do not know:
8) How can you identify products that are less toxic for pest management in your store?
a) The OWOW shelf labels that identify eco-friendly products: **16%** b) The OWOW pest management fact sheets & QR codes: **7%** c) The OWOW website at ourwaterourworld.org: **4%** d) Talking with an OWOW IPM Advocate: e) All of the above: **73%**
9) What is the highly effective, science-based strategy for controlling pests in the home/garden that also helps to protect our waterways from toxic pesticide pollutants?
a) Synthetic pesticide program: b) Homemade, D.I.Y. remedies & cures: **2%** c) IPM (Integrated Pest Management) Principles: **98%**

Providing Juan Assistant Manager & Felipe, Store Manager at Site One, Santa Ynez with an OWOW training

Providing Emma at Valley Hardware, Solvang with an OWOW training

Training evaluation questions:

What was the most useful thing you learned today?

'Different solutions to help remedy pest issues & learning about pesticides & water quality.'
'How problematic the synthetic pesticides are to the waterways & environment.'
'This was all very helpful!'
'How the rodenticides work and rodent management.'
'Learning about urban runoff and the impacts of the products we use.'
'All of the class was great!'
'How boric acid works for ants & roach management.'
'That ant bait stations for more effective than the ant spray pesticides.'
'Which products are effective and not harmful to the environment.'
'Tools for deterring pests, exclusion for pest management.'
'The shelf tags to identify the eco-friendly products we sell.'
'Learning about IPM.'
'Learning about the different types of pest management tactics depending on the type of pest it is.'
'Learning about pesticides and water pollution.'
'How Diatomaceous Earth works.'
'Fertilizers: synthetic vs organic and how they can affect pests.'
'Learning more about all of the less0toxic products for pest management, as well as learning new skills.'
'For my own personal use.'
'Learning about eco-friendly products and how they work.'
'Effective rodent management.'
'Plant care to reduce pests.'
'Safer pest solutions to use around children & pets.'

Additional comments provided by those who attended the training:

'Very informative! 😊'
'Great training!'
'Thank you!'
'Very informative, thank you!'
'Enjoyed the class, very informative.'
'The information was great.'
'It was all very useful, thank you!'
'The additional resources are helpful, thanks.'
'Very helpful, great information.'
'Great class, more please.'
'The instructor explained everything very well.'
'The take home folders are great for us!'
'All good information.'
'Thank you! Very helpful!'

Providing an OWOW training to Maggie & Wayne, the Store Managers at Farm Supply Co, Buellton

Providing Bob, owner of Windmill Nursery with an OWOW training

Program Evaluation by Management and Staff

To best understand the current relevance of the OWOW program after the three-year pause, I asked each retailer owner or manager questions that provided essential feedback for program improvements.

Each owner, manager, or key associate mentioned that most of their customers are looking for eco-friendly alternatives and that they have increased their selection of eco-friendly pesticides. Site One Landscaping was the only retailer lacking an eco-friendly option. When I brought this to their attention,

explaining the environmental impacts of the pesticides they do sell, mangers at both stores were interested in learning about eco-friendly effective alternatives.

Several of the owner, manager, or key associate had questions about eco-friendly herbicide alternatives that were effective. I provided them with effective suggestions available to them by the distributor.

They all mentioned that more information about how the eco-friendly products work and other suggestions for effective pest management was extremely valuable. The more education they have and that their associates have, the easier it is to sell alternative pest management solutions to their customers.

Additional comments provided:

- All were appreciative to receive the pest management resources I brought, especially the materials in Spanish for the retailers who have a Spanish speaking clientele.
- Store Manager Rhonda, Farm Supply Co, Santa Maria, requested that on my next visit she'd like to arrange that I provide a class to their entire staff of 20.
- Bob, the owner of Windmill Nursery, Buellton is a huge supporter of the OWOW program and appreciates the digital tools that are available for him, his staff, and his customers.
- Poncho, Branch Manager of Site One, Carpinteria, was so impressed with the IPM information I provided, he asked if I could provide a class to their customers on my next visit, they will provide a Spanish translator.
- Marilyn, owner of Carpinteria Valley Lumber, is a huge supporter of the OWOW program! She couldn't say enough, wanted me to stay all day to answer all her questions, which she did have many. She asked about the impacts of several of the pesticides they sell and alternatives to those that were not eco-friendly.
- Matt, the owner of Island Seed & Feed, only brings in eco-friendly pest management solutions. He also appreciates the OWOW program the tools that are available for them to use.
- Will, manager of Miner's Ace, is a huge supporter of the OWOW program.
- Jamie, one of the managers of La Sumida Nursery asked if OWOW would be available to table at their anniversary event. Adam is following up with them about this invitation.
- Mike, owner of Terra Sol Nursery asked if I'd be able to teach a class to his customers as an event on my next visit. He is also a huge fan of the OWOW program.
- Maggie, manager of Farm Supply, Buellton, really appreciated all the information I provided about rodent management without rodenticides. The other mangers also liked the digital tools I shared with them for pest management support.
- The upper management team at OSH is thrilled to have the OWOW program added to their Santa Maria location.

Adam Goodrich joining the OWOW training at
La Sumida Nursery, Santa Barbara

I asked several of the associates that I was able to have conversations with their feedback about the program. In addition to my individual conversations, I provided a program evaluation as a part of the trainings. A total of 16 trainings were conducted, 53 evaluations were returned. Here are the results of those evaluations.

Summary of End of Training Evaluation Form

1) You feel comfortable using the OWOW resources available in this store?
a) Yes: **98%** b) No: **2%** c) left blank, did not complete:
2) You understand a less toxic solution for at least one pest problem discussed today.
a) Yes: **100%** b) No: c) Left blank, did not complete:
3) What type of support can the OWOW IPM Advocate provide you more of?
a) More print & online resources for less toxic pest management: **10%** b) More information about seasonal pest problems and how to manage less toxically: **40%** c) More OWOW training & product knowledge classes: **22%** d) Left blank, did not complete: **28%**

Would you like to sign up to receive emails providing information about seasonal pest updates and educational event?
22 associates agreed to sign up to receive more information throughout the year – this is 42% of those who completed the evaluation.

'Our Store & community appreciate & love your program! In 2019 we met Debi. She was amazing. Now in 2023 we meet Suzanne! Another amazing person!'
~Marilyn, Owner Carpinteria Valley Lumber

'I'm dedicated to best environmental practices. Our store only sells eco-friendly products.'
~Matt, Owner, Island Seed & Feed

'The Spanish pest management resources are really great.'
~Poncho, Branch Manager, Site One Landscape Supply

Program Materials Installed

New Store Set Up

Outdoor Supply Hardware, Santa Maria is the newest retail partner added to the OWOW program.

The OSH upper management began in October 2019. After several years of discussions, we finally were able to launch the OWOW program in 11 of their 14 store locations. The OSH upper management team is thrilled for the Santa Maria partnership and look forward adding the OWOW program in their remaining 3 locations once program support is available.

I coordinated the program set up with Store Manager Andrew and scheduled an OWOW training after the program was set up for proper introductions of the OWOW materials. An OWOW Fact Sheet rack was installed in the pesticide aisle in direct sight of those consumers shopping in the aisle. The rack is stocked with 17 different IPM topics, including the OWOW QR Code Fact Sheet poster.

New OWOW Fact Sheet rack at the OSH, Santa Maria

List of Fact Sheets stocked:

- Ants – both in English & Spanish
- Aphids
- Bed Bugs – both in English & Spanish
- Cockroaches
- Fleas
- Health Gardens
- Hiring a Pest Control Company
- Lawns
- Moles, Gophers, & Voles,
- Mosquitoes
- Use and Disposal – both in English & Spanish
- Rats & Mice – both in English & Spanish
- Roses
- Slugs & Snails
- Spiders
- Weeds
- Yellow Jackets

Andrew, Store Manager at OSH, Santa Maria with new OWOW QR Code signage

Several of the associates were already familiar with the OWOW program since they had worked at an OSH prior to the company closing. All were in favorable support of joining in the OWOW program partnership again. Each mentioned how helpful the materials are when working with customers in the pesticide aisle.

Shelf Talker Resets

During my store visits I noticed that the shelf talkers were not in place at the first Home Depot store I visited in Goleta. I contacted Andrea to ask about this. I mentioned that I could assist with placing them as they are a crucial component of the program. She agreed to have me place the shelf talker tags at both the Home Depot store and the Miner's Ace, Goleta. Shelf talkers were not placed at the Home Depot in Santa Maria either. I asked Sean if he'd prefer that I place them, and he did. When working at the Carpinteria Valley Lumber, Marilyn the owner requested that I adjust, replace, add the shelf talkers to the eco-friendly products. She finds them to be extremely helpful when selling products to her customers. She also mentioned that several of her customers recognize the shelf tags and make their purchases with confidence knowing that the pesticides they are purchasing are environmentally safer.

I provided new shelf talkers tags at five retailer partners:

- Outdoor Supply Hardware, as a part of the program set up
- The Home Depot Store, Goleta
- Miner's Ace, Goleta
- The Home Depot Store, Santa Maria
- Carpinteria Valley Lumber, Carpinteria

I did see that most of the OWOW retailer partners did need shelf talker maintenance. I saw shelf tags were either not placed or placed under problem pesticides, such as pyrethroids and noenicitinoids. This information has been presented to Cathleen Garnand. A follow up proposal will be submitted to Cathleen which will outline a scope of OWOW services and support for the County of Santa Barbara and the City partners to review.

Introducing the OWOW program and providing a training at the OSH, Santa Maria

Shelf talker tags placed at the OSH, Santa Maria

New shelf talker tag resets at the Home Depot Store in Goleta & Santa Maria

Maintaining the Program

Moving forward, it will be important for the agency personnel who provide the upkeep of the OWOW program to visit each retail partner as often as monthly and in the least once each quarter to ensure that the shelf talker tags are placed appropriately reflecting the eco-friendly product it is intended for. The Home Depot Stores do require more attention and often more maintenance. It is advised that the Home Depot Stores are visited monthly to ensure the shelf talker tags are properly placed, in good condition and that the OWOW rack is in place and stocked. I have attached the letter from Home Depot Cooperate that explains that OWOW representatives are invited into the store for these purposes. If any resistance occurs, please inform me so that I can provide relief of the resistance.

Closing

Each of the OWOW program retail partners were appreciative for the reengaged program support. Though a few were a bit hesitant at first to open up to me about their concerns and lack of attention over the years, after a brief explanation, they were open to moving forward with the partnership. All were enthusiastic about meeting me, hearing about the OWOW program updates, receiving educational materials and support with pest problems. Those with Spanish speaking clientele were very pleases to learn about the Spanish IPM tools available to them through OWOW and UCIPM.

I was pleasantly impressed with the warm welcomes I received from each business. Though the busy retail spring season had begun, each of the key contacts made time for me upon my arrival and provided me with their attention, introducing me to other key associates so that they could learn more and have their questions answered. I was happy to engage with all those interested and look forward to working with these retailers again.

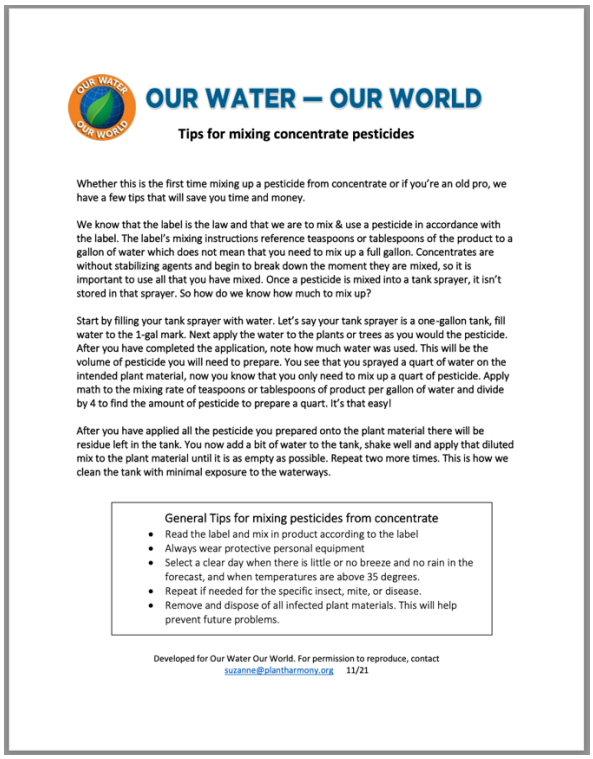
Training department supervisor and key associates at Miner's Ace, Goleta

Training assistant manager of Whispering Tree Nursery, Orcutt

Jamie assistant manager of La Sumida Nursery, Santa Barbara

Training associates at of Whispering Tree Nursery, Orcutt

Training the team of associates at the Home Depot Store, Goleta



OUR WATER — OUR WORLD

Tips for mixing concentrate pesticides

Whether this is the first time mixing up a pesticide from concentrate or if you're an old pro, we have a few tips that will save you time and money.

We know that the label is the law and that we are to mix & use a pesticide in accordance with the label. The label's mixing instructions reference teaspoons or tablespoons of the product to a gallon of water which does not mean that you need to mix up a full gallon. Concentrates are without stabilizing agents and begin to break down the moment they are mixed, so it is important to use all that you have mixed. Once a pesticide is mixed into a tank sprayer, it isn't stored in that sprayer. So how do we know how much to mix up?

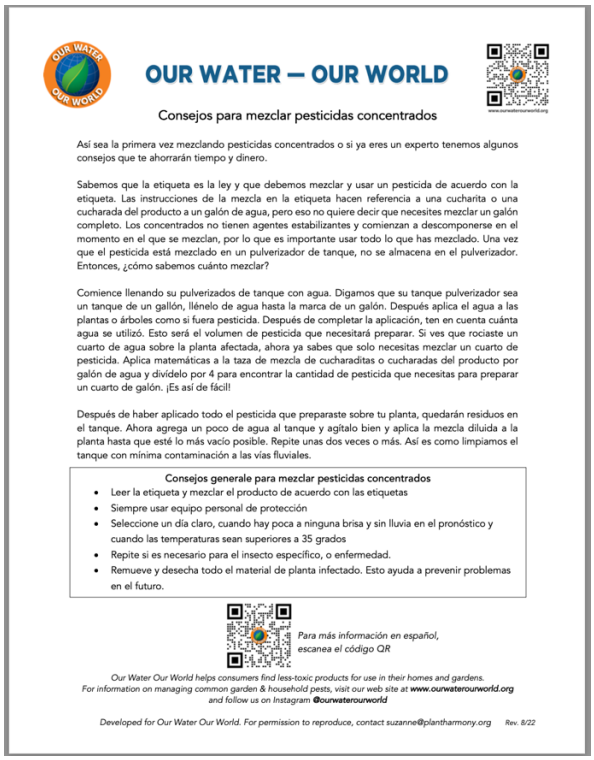
Start by filling your tank sprayer with water. Let's say your tank sprayer is a one-gallon tank, fill water to the 1-gal mark. Next apply the water to the plants or trees as you would the pesticide. After you have completed the application, note how much water was used. This will be the volume of pesticide you will need to prepare. You see that you sprayed a quart of water on the intended plant material, now you know that you only need to mix up a quart of pesticide. Apply math to the mixing rate of teaspoons or tablespoons of product per gallon of water and divide by 4 to find the amount of pesticide to prepare a quart. It's that easy!

After you have applied all the pesticide you prepared onto the plant material there will be residue left in the tank. You now add a bit of water to the tank, shake well and apply that diluted mix to the plant material until it is as empty as possible. Repeat two more times. This is how we clean the tank with minimal exposure to the waterways.

General Tips for mixing pesticides from concentrate

- Read the label and mix in product according to the label
- Always wear protective personal equipment
- Select a clear day when there is little or no breeze and no rain in the forecast, and when temperatures are above 35 degrees.
- Repeat if needed for the specific insect, mite, or disease.
- Remove and dispose of all infected plant materials. This will help prevent future problems.

Developed for Our Water Our World. For permission to reproduce, contact suzanne@plantharmony.org 11/21



OUR WATER — OUR WORLD

Consejos para mezclar pesticidas concentrados

Así sea la primera vez mezclando pesticidas concentrados o si ya eres un experto tenemos algunos consejos que te ahorrarán tiempo y dinero.

Sabemos que la etiqueta es la ley y que debemos mezclar y usar un pesticida de acuerdo con la etiqueta. Las instrucciones de la mezcla en la etiqueta hacen referencia a una cucharita o una cucharada del producto a un galón de agua, pero eso no quiere decir que necesites mezclar un galón completo. Los concentrados no tienen agentes estabilizantes y comienzan a descomponerse en el momento en el que se mezclan, por lo que es importante usar todo lo que has mezclado. Una vez que el pesticida está mezclado en un pulverizador de tanque, no se almacena en el pulverizador. Entonces, ¿cómo sabemos cuánto mezclar?

Comience llenando su pulverizados de tanque con agua. Digamos que su tanque pulverizador sea un tanque de un gallón, llénelo de agua hasta la marca de un galón. Después aplica el agua a las plantas o árboles como si fuera pesticida. Después de completar la aplicación, ten en cuenta cuánta agua se utilizó. Esto será el volumen de pesticida que necesitará preparar. Si ves que rociaste un cuarto de agua sobre la planta afectada, ahora ya sabes que solo necesitas mezclar un cuarto de pesticida. Aplica matemáticas a la taza de mezcla de cucharaditas o cucharadas del producto por galón de agua y divídelo por 4 para encontrar la cantidad de pesticida que necesitas para preparar un cuarto de galón. ¡Es así de fácil!

Después de haber aplicado todo el pesticida que preparaste sobre tu planta, quedarán residuos en el tanque. Ahora agrega un poco de agua al tanque y agítalo bien y aplica la mezcla diluida a la planta hasta que esté lo más vacío posible. Repite unas dos veces o más. Así es como limpiamos el tanque con mínima contaminación a las vías fluviales.

Consejos generale para mezclar pesticidas concentrados

- Leer la etiqueta y mezclar el producto de acuerdo con las etiquetas
- Siempre usar equipo personal de protección
- Seleccione un día claro, cuando hay poca a ninguna brisa y sin lluvia en el pronóstico y cuando las temperaturas sean superiores a 35 grados
- Repite si es necesario para el insecto específico, o enfermedad.
- Remueve y desecha todo el material de planta infectado. Esto ayuda a prevenir problemas en el futuro.

Para más información en español, escanea el código QR

Our Water Our World helps consumers find less-toxic products for use in their homes and gardens. For information on managing common garden & household pests, visit our web site at ***www.ourwaterourworld.org*** *and follow us on Instagram* ***@ourwaterourworld***

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'Tips for mixing concentrated pesticides' Bilingual handout stocked in OWOW literature racks and provided to the retail associates at each training

Interoffice
MEMORANDUM

DATE: January 1, 2023

TO: California Store Managers, D28 ASMs and Department Heads

FROM: Ron Jarvis

CC: Steve Knott, Scott Jacobson

SUBJECT: Our Water Our World training

OUR WATER, OUR WORLD is a coalition of organizations whose purpose is to encourage consumers to use less toxic pest controls in and around their homes. They specialize in retail friendly education. Their goal is not to alienate consumers by telling them what they can't use, but instead their information focuses on less toxic pest management and ties into products currently on our shelves.

An Our Water, Our World (OWOW) representative will be in your store to help train employees and label less-toxic products with shelf-talkers. The representative may also schedule a tabling event to educate consumers. This ties in well with "How-to" weekend events. The representative will display a sampling of excellent less toxic and Eco Options products off our shelves. They will provide free informational literature and a wealth of knowledge and experience. Please enjoy this additional help in your store.

A representative will contact you before the training or demonstration date to arrange details. Please contact Suzanne Bontempo at (415) 317-0475 if you have any questions.

Thank you

Ron Jarvis

from the desk of.....
Ron Jarvis
Merchandising Vice President – Sustainability
THE HOME DEPOT USA, INC.
2455 Paces Ferry Road
Atlanta, GA 30339
(770) 384-4835
Fax (770) 384-4411

Report Summary Text File - Auto-generated by SMARTS on 10/13/2023 13:39:39

Name of Report: Phase II Small MS4 Annual Report - Traditionals 2022 - 2023 Annual

Certifier Name: Rose Hess
Certifier Title: Director of Public Works
Certifier Password Hash:
6cde64e5c832b378a89c70cde30f984d91db7de0938bc406d8825c1eee1d4cc8

Certifier User Account ID: 626600
Certification Computer IP: 198.143.34.3
Certification Executed On:
WARNING - Unable to Retrieve Certifier Details or Confirmation Number

2022-2023

Phase II Small MS4 Annual - Report

REPORTING PERIOD:07/01/2022 - 06/30/2023

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 - 2022-2023

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 - 2022-2023

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: 10/13/2023**

Phase II Small MS4 Annual - Report - 2022-2023

ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
2022-2023 PCRs Annual Report-Solvang	2022-2023 PCRs Annual Report-Solvang	2023-10-13 09:14:21.0	Supporting Documentation	4ad1ca909370f94afd61371a819c5788a6c4fddd21d6eaa038cfea3173d62ad5	1/1
2022-2023 PCRs Annual Report-Buellton	2022-2023 PCRs Annual Report-Buellton	2023-10-13 09:14:21.0	Supporting Documentation	516b4f6cda3b823f695030f8d532bdab53df55a5d1e4ebed963ed68c5e8	1/1
PCRs Annual Report [2022-2023]-Long-Term Operation and Maintenance-Solvang	PCRs Annual Report [2022-2023]-Long-Term Operation and Maintenance-Solvang	2023-10-13 09:14:22.0	Supporting Documentation	3efaf5144ebfc335d936c31d3f4fa9a20955ee0ef4419bc87e6fc5f41fd3ff	1/1
PCRs Annual Report [2022-2023]-Long-Term Operation and Maintenance-Buellton	PCRs Annual Report [2022-2023]-Long-Term Operation and Maintenance-Buellton	2023-10-13 09:14:22.0	Supporting Documentation	4b7c4e32a25624b8a03fef5a885564299499d7c4b6ceeed5f23d7ca67873a6	1/1
PCRs Annual Report [2022-2023]-Performance Req No1 Implementation	PCRs Annual Report [2022-2023]-Performance Req No1 Implementation	2023-10-13 09:14:23.0	Supporting Documentation	a94e0f43d936e2ede89c6114a5ac35ae65a5512c43f44f16fd4943e20b	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 42M2000036 - City of Solvang

County: Santa Barbara

SECTION II: REPORTING PERIOD

Reporting Period: 7/1/2022 - 6/30/2023

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? 1

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)	1
≥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		1

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	1	N/A	1	1
Only Nos. 1 and 2		0		
Only Nos. 1, 2, and 3			0	
Only Nos. 1, 2, 3, and 4	0	0	0	0
Total	1	0	1	1

* 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?**
	☐	☐	☐	☐	☐	☐	☐	☐	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

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 42M2000150 - City of Buellton

County: Santa Barbara

SECTION II: REPORTING PERIOD

Reporting Period: 7/1/2022 - 6/30/2023

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		N/A		
Only Nos. 1 and 2				
Only Nos. 1, 2, and 3				
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.

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?**
	☐	☐	☐	☐	☐	☐	☐	☐	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

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

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- 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"*

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 2022-2023

Project Name	Project Number (City #)	Project Address / Location	PCR Category	SCM Type (List Applicable Codes*)	SCM & DMA 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 or Asphalt (DMA 24 to DMA 38, DMA 25 to DMA 39)	7/10/20	6/24/20	8/13/20	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 - No Building	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 - No Building	N/A - Tier 1 Project	N/A - Tier 1 Project	City of Solvang	(805) 688-5575	Public	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) **DMAs Drain to SCM** Roof (1-RA, 1-RB, 2-RA), **(2) Direct Infiltration -** Subsurface Infiltration Storage Basin (SCM 2-B) **DMAs Drain to SCM** Concrete or Asphalt (2-DW, 3-DW), **(3) Direct Infiltration -** Subsurface Infiltration Storage Basin (SCM 3-B) **DMAs Drain to SCM** Landscape Area (2-RY), **(4) Self-Retaining Areas** (1-FY) - Landscape Area(s), **(5) Self-Retaining Areas** (1-RY) - Landscape Area **DMAs Drain to SR** Roof (2-RB), **(6) Self-Retaining Areas** (2-FY) - Landscape Area **DMAs Drain to SR** Roof (4-RA, 4-RB); Concrete or Asphalt (4-DW, 5-DW) **(7) Self-Retaining Areas -** Landscape Area (2-RY) **DMAs Drain to SR** Roof (3-RA, 3-RB);**(8) Self-Retaining Areas** (1-SR) - Landscape Area, **(9) Self-Retaining Areas** (2-SR) - Landscape Area, **(10) Self-Retaining Areas** (3-SR) - Landscape Area, **(11) Self-Retaining Areas** (4-SR) - Landscape Area	10/27/22	Initial 10/10/22; Final 10/27/22	12/7/21 (1731 Laurel Avenue); 6/9/22 (1735 Laurel Avenue)	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 or Asphalt (DMA 3 and DMA 4), **(2) Bioretention Basin** (SCM-2) **DMAs Drain to SCM** Roof (DMA 2), Concrete or 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	420 Second Street Solvang, CA 93463	PR1: Site Design and Runoff Reduction	SDRR5	**(1) Direct Infiltration** - Permable Pavement	7/10/22	7/22/22	8/3/22	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 or Asphalt (DMA 1, DMA 11), **(2) Bioretention Basin** (SCM- 2) **DMAs Drain to SCM** Concrete or Asphalt (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 or Asphalt (DMA 26), **(5) Bioretention Basin** (SCM- 5) **DMAs Drain to SCM** Roof (DMA-23); Concrete or Asphalt (DMA 27), **(6) Bioretention Basin** (SCM-6) **DMAs Drain to SCM** Roof (DMA 24); Concrete or Asphalt (DMA 28) , **(7) Bioretention Basin** (SCM-7) **DMAs Drain to SCM** Roof (DMA 25); Concrete or Asphalt (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 or Asphalt (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
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 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 SCM
Reporting Year 2022-2023

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	3/6/23	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, 10/17/22	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)	9/19/18	Not yet completed	Not yet completed	8/24/17	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	Project not completed yet	Project not completed yet
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	4/20/2020, 10/21/2022	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		
Rio Vista Car Wash	80002 / 200-155059-22001	390 E Highway 246, Buellton, CA 93427	PR2: Water Quality Treatment	SDRR2-SDRR4, WQT2, RR4-RR9, PM1	**(1) Direct Infiltration -** Bioretention Area **DMAs Drain to SCM** New Buidling, Replaced Buidling, New Concrete, Replaced Concrete, Replaced Asphalt, and Pervious	In Progress	Not yet completed	Not yet completed	4/21/23	Plan: Hard Copy-Tetratech Engineer Project File & Electronic Copy - Teratech Engineer Electronic File and City of Buellton PWD Electronic File	Aimee and Sam Sell	(805) 693-4642 (805) 245-0916	Private	Project not completed yet	Project not completed yet
220 Industrial Way	90072 / 200-155059-22003	220 Industrial Way, Buellton, CA 93427	PR3: Runoff Retention	WQT1, RR1, RR4-RR9, PM1	**(1) Direct Infiltration -** Underground Retention Basin **DMA's Drain to SCM** Concrete, Roof, and AC Pavement **(2) Self-Retaining** Landscape	In Progress	Not yet completed	Not yet completed	12/12/22	Plan: Hard Copy-Tetratech Engineer Project File & Electronic Copy - Teratech Engineer Electronic File and City of Buellton PWD Electronic File	Harvey Saarloos	(562) 619-5460	Private	Project not completed yet	Project not completed yet
Polo Village	90077 / 200-155059-23004	560 McMurray Rd, Buellton, CA 93427	PR4: Peak Management	SDRR2, SDRR3, WQT3b, RR1, RR4-RR9, PM1	**(1) Direct Infiltration -** Underground Chambers (SCM 1, SCM 2) **DMA's Drain to SCM** Hardscape and Roof (DMA 1, DMA 2, DMA 4, DMA 6, DMA 8, DMA 9, DMA 10, DMA 11, DMA 12) **(2) Self-Retaining** Landscape and Pavers (DMA 1, DMA 2, , DMA 3, DMA 5, DMA 7, DMA 8, DMA 9, DMA 10, DMA 11, DMA 12, DMA 13, DMA 14, DMA 15, DMA 16)	In Progress	Not yet completed	Not yet completed	7/25/23	Plan: Hard Copy-Tetratech Engineer Project File & Electronic Copy - Teratech Engineer Electronic File and City of Buellton PWD Electronic File	Buellton Polo Village Partners LP	100 Pacifica, Suite 203 Irvine, CA 92618	Private	Project not completed yet	Project not completed yet

Note: Strikeout Cell = Project in plan check phase

***SCM Type Code**

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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.

Tier 1 Stormwater Control Plan

For Small (Tier 1) Land Development Projects

Development projects that create or replace 2,500 sf or more of impervious surface (roofs or pavement) must incorporate specific measures to reduce stormwater runoff. This Stormwater Control Plan template applies to Small Tier 1 Projects[1]. Please complete the following template and include with your land use permit application submittal.

It is fairly easy to accomplish the stormwater requirements for most small land development projects. However, compliance must be carefully documented. The municipal stormwater staff will review your Tier 1 Stormwater Control Plan, site plan, and associated permit submittals to confirm that the following design strategies have been incorporated:

- Limit disturbance of creeks and natural drainage features
- Minimize compaction of highly permeable soils
- Limit clearing and grading of native vegetation at the site to the minimum area needed to build the project, allow access, and provide fire protection
- Minimize impervious surfaces by concentrating improvements on the least-sensitive portions of the site, while leaving the remaining land in a natural undisturbed state
- Minimize stormwater runoff by implementing one or more site design measures, consistent with the checklist below.

Here are the simple step-by-step instructions for completing a Tier 1 Stormwater Control Plan for Small (Tier 1) Land Development projects:

Step 1: Project Data Form

[1] Projects that create or replace 5,000 sf or more of impervious surface (not single-family), and all other projects including single-family projects that create or replace 15,000 sf or more of impervious surface, require a more comprehensive *Stormwater Control Plan.* Please see Santa Barbara County's Stormwater Technical Guide for more information, including definition of "net impervious" as applicable . www.sbprojectcleanwater.org

Complete all fields in the Project Data form. Select one or more runoff reduction measures.

Step 2: Delineate Impervious Areas and Runoff Reduction Measures

Delineate the impervious area. On an attached site plan or sketch, show the impervious area—for example, a roof, or portion of a roof, or a paved area—that will drain to your runoff reduction measure. Typically these delineations follow roof ridge lines or grade breaks. Alternatively, show the type and extent of pervious paving. An example sketch follows.

Indicate the location and type of runoff reduction measure(s) you've selected. On the site plan or sketch, show the reduction measure(s) selected. At least one measure is required that is designed to minimize runoff from some amount of impervious area.

Step 3: Complete Checklist and Submit Your Tier 1 Stormwater Control Plan

For each measure selected, fill out the brief checklist to verify that your design meets the minimum standards. Include the checklist with your Stormwater Control Plan.

This Stormwater Control Plan will accompany your land use application submittal and include:

1. Project Data form including the runoff reduction measures(s) selected
2. Site plan or sketch showing runoff management from impervious areas (see attached)
3. Checklist of runoff reduction measures design standards (see below)

Tier 1 Stormwater Control Plan Project Data

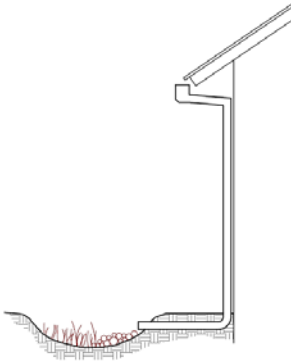
[Complete all fields]

Project Name / Case File Number	
Project Location [Street Address if available, or intersection and/or APN]	
Name of Owner or Developer	
Project Type and Description [Examples: "Single Family Residence," "Parking Lot Addition," "Retail and Parking"]	
Total New Impervious Surface Area (square feet) [Sum of currently pervious areas that will be covered with new impervious surfaces]	
Total Replaced Impervious Surface Area [Sum of currently impervious areas that will be covered with new impervious surfaces]	
Total Pre-Project Impervious Surface Area	
Total Post-Project Impervious Surface Area	
Runoff Reduction Measure(s) Selected (Check one or more)	❑ 1. Disperse runoff from roofs or pavement to vegetated area ❑ 2. Permeable pavement ❑ 3. Cisterns or Rain Barrels ❑ 4. Bioretention Facility or Planter Box

Stormwater Control Plan Runoff Reduction Measures Design Standards Checklist

Measure 1: Disperse runoff from roofs or pavement to vegetated areas.

This is the simplest option. Downspouts can be directed to flat or concave vegetated areas adjacent to buildings, or extended via pipes to reach vegetated areas further away. Paved areas can be designed with curb cuts, or without curbs, to direct flow into surrounding vegetation.



Connecting a roof leader to a vegetated area. The head from the eave height makes it possible to route roof drainage some distance away from the building.

On the site plan, show:

- ❑ Each impervious area from which runoff will be directed, and its square footage.
- ❑ The vegetated areas that will receive runoff, and the approximate square footage of each.
- ❑ If necessary, explain in notes on the plan how runoff will be routed from impervious surfaces to vegetated areas.

Confirm the following standards are met:

- ❑ Pervious areas must be relatively flat and if graded, the surface should be slightly concave. Tributary impervious square footage in no instance exceeds twice the square footage of the receiving pervious area. On your sketch, show enough dimensions that will confirm this criterion is met.
- ❑ Roof areas collect runoff and route it to the receiving pervious area via gutters and downspouts.
- ❑ Paved areas are sloped so drainage is routed to the receiving pervious area.
- ❑ Runoff is dispersed across the vegetated area (for example, with a splash block) to avoid erosion and promote infiltration.
- ❑ Vegetated area has amended soils, vegetation, and irrigation as required to maintain soil stability and permeability.
- ❑ Any area drains within the vegetated area have inlets at least 3 inches above surrounding grade.
- ❑ Additional comments:_____

Measure 2: Permeable Pavement

Permeable pavements may include pervious concrete, pervious asphalt, porous pavers, crushed aggregate, open pavers with grass or plantings (turf block), open pavers with gravel, or solid pavers with open (non-grouted) joints.

Show on your site plan:

- ❑ Location, extent and types of pervious pavements.

Confirm the following standardsare met:

- ❑ No erodible areas drain on to permeable pavement.
- ❑ Subgrade compaction is minimal.
- ❑ Reservoir base course is of open-graded crushed stone. Base depth (3" or more) is adequate to retain rainfall and support design loads (more depth may be required).
- ❑ No subdrain is included or, if a subdrain is included, outlet elevation is a minimum of 3 inches above bottom of base course.
- ❑ Subgrade is level and slopes are not so steep that subgrade is prone to erosion.
- ❑ Rigid edge is provided to retain granular pavements and unit pavers.
- ❑ Solid unit pavers, if used, are set in sand or gravel with minimum 1/8 inch gaps between the pavers. Joints are filled with an open-grade aggregate free of fines.
- ❑ Permeable concrete or porous asphalt, if used, are installed by industry certified professionals according to the vendor's recommendations.
- ❑ Selection and location of pavements incorporates Americans with Disabilities Act requirements (if applicable), site aesthetics, and uses.
- ❑ Additional comments:_____

Check with local Fire Department for applicability criteria using permeable pavement.

Measure 3: Cisterns or Rain Barrels

Use of cisterns or rain barrels to comply with this requirement may be subject to municipality approval. Planning and Building Permits may be required for very large systems.

Show on your site plan:

- ❑ Impervious areas tributary to each cistern or rain barrel.
- ❑ Location of each cistern or rain barrel.

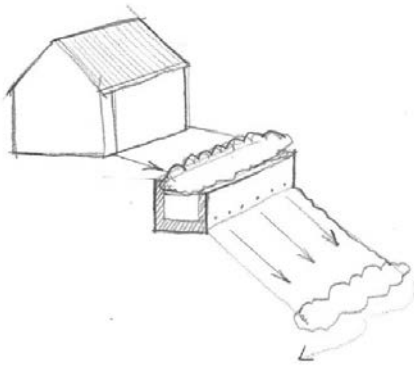
Confirm the following standards are met:

- ❑ Rain barrels are sited at or above grade on a sound and level surface at or near gutter downspouts.
- ❑ Gutters tributary to rain barrels are screened with a leaf guard or maximum ½-inch to ¼-inch-minimum corrosion-resistant metallic hardware fabric.
- ❑ Water collected will be used for irrigation only.
- ❑ Openings are screened with a corrosion-resistant metallic fine mesh (1/16 inch or smaller) to prevent mosquito harborage.
- ❑ Lids are secured to prevent entry by children.
- ❑ Rain barrels and gutters are to be cleaned annually.
- ❑ Additional comments:

Measure 4: Bioretention Facility or Planter Box

An above-ground planter box may be appropriate if the development site lacks level landscaped areas for dispersion and pervious pavements are not practical. Planter boxes and bioretention facilities can treat runoff from impervious surfaces 25 times their area (sizing factor of 0.04).

Detailed design guidance for bioretention facilities is in the *Stormwater Technical Guide*.



Flow-through planter built into a hillside. Flows from the underdrain and overflow must be directed in accordance with local requirements.

Show on your site plan:

- ❑ Impervious areas tributary to the facility.
- ❑ Location and footprint of facility.

Confirm the following standards are met:

- ❑ Ponding depth is 4"-6" minimum.
- ❑ Minimum 18" depth soil mix (60%-70% sand; 30%-40% compost) with minimum long-term infiltration rate of 5"/hour.
- ❑ Surface area of soil mix is a minimum 0.04 times the tributary impervious area.
- ❑ "Class 2 perm[illegible] (Caltrans specification 68-2.02(F)(3) drainage layer 12" deep.
- ❑ No filter fabr[illegible]
- ❑ Perforated pipe (PVC SDR 35 or approved equivalent) underdrain[illegible]
- ❑ Connection with sufficient head to storm drain or discharge point.
- ❑ Underdrain has a clean-out port consisting of a vertical, rigid, non-perforated PVC pipe, connected to the underdrain via a sweep bend, with a minimum diameter of 4" and a watertight cap.
- ❑ Overflow outlet connected to a downstream storm drain or approved discharge point.
- ❑ Planter is set level.
- ❑ Emergency spillage will be safely conveyed overland.
- ❑ Plantings are suitable to the climate, exposure, and a well-drained soil.
- ❑ Irrigation system, if any, controlled as a separate zone.
- ❑ Additional comments:_____

Sample

Useful Resources

The following references may be useful for design. Designs must meet the minimum standard specifications herein.

Santa Barbara Project Clean Water Stormwater Technical Guide. Available at http://www.sbprojectcleanwater.org

Start At the Source: Design Guidance Manual for Stormwater Quality.
Bay Area Stormwater Management Agencies Association, 1999.

California Nevada Cement Association, www.cncpc.org

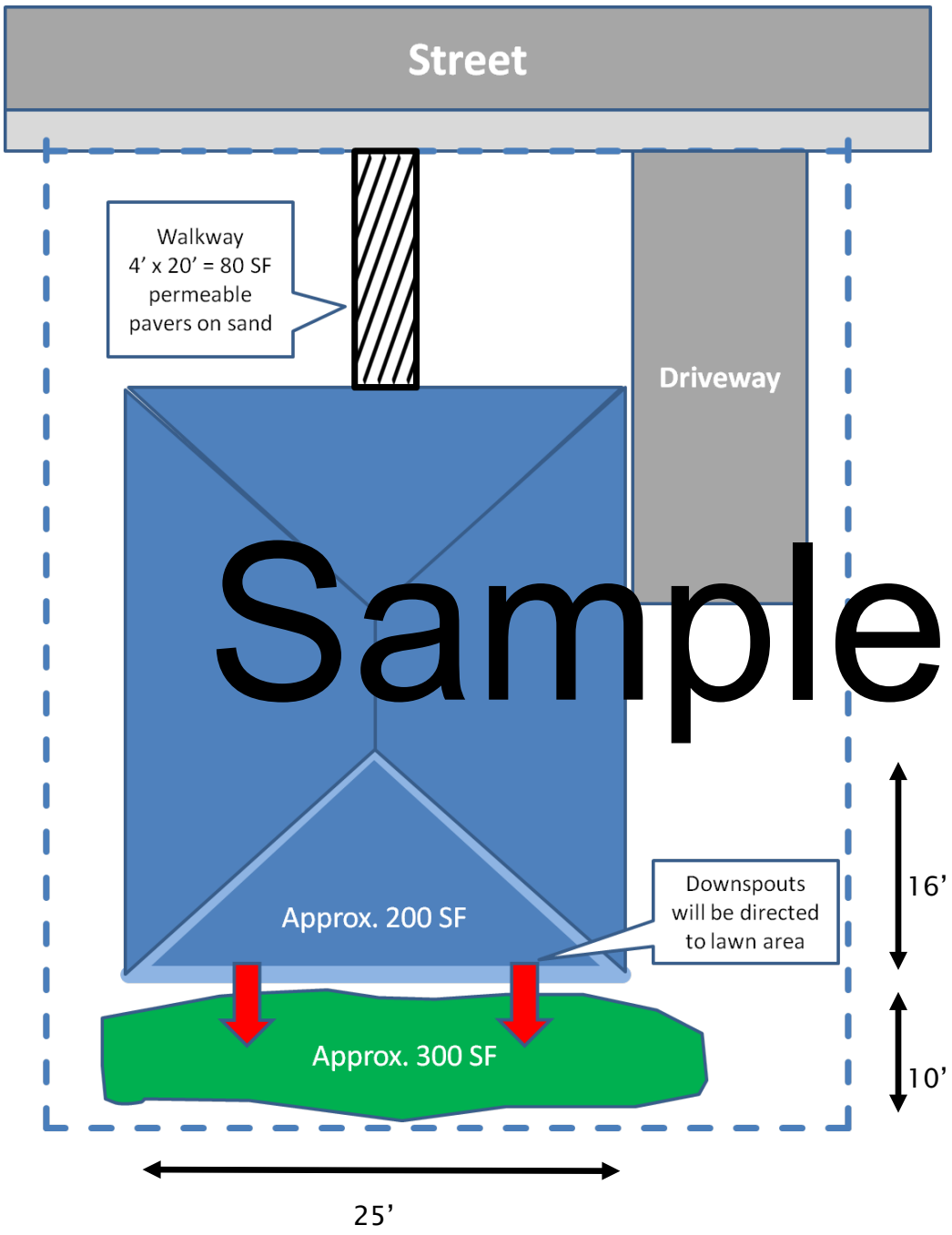
Specifier's Guide for Pervious Concrete, Colorado Ready Mixed Concrete Association. www.crmca.org
Interlocking Concrete Pavement Institute
http://www.icpi.org/

Porous Pavements, by Bruce K. Ferguson. 2005. ISBN 0-8493-2670-2

Stormwater Control Plan Example Sketch

The example below illustrates the level of detail required. This site plan addresses two Runoff Reduction Measures: permeable paving and dispersing runoff to vegetated areas.

Not to Scale



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Name of Report: Central Coast Post-Construction Stormwater Requirements Annual Reporting 2022 - 2023 Annual

Certifier Name: Rose Hess
Certifier Title: Director of Public Works
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6cde64e5c832b378a89c70cde30f984d91db7de0938bc406d8825c1eee1d4cc8

Certifier User Account ID: 626600
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