# CHAPTER 1 – INTRODUCTION Groundwater Sustainability Plan for the Marina GSA Area of the 180/400 Foot Aquifer Subbasin

City of Marina Groundwater Sustainability Agency Marina, California



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#### 1 INTRODUCTION

The California Legislature enacted the Sustainable Groundwater Management Act (SGMA) in 2014 in response to continued overdraft of California's groundwater resources (23 California Code of Regulations [CCR] § 350 and California Water Code [CWC] §§ 10720-10736.6). SGMA requires Groundwater Sustainability Agencies (GSAs) to prepare and implement Groundwater Sustainability Plans (GSPs) to achieve sustainable groundwater management in medium- and high-priority groundwater basins and subbasins designated by the California Department of Water Resources (DWR). SGMA defines sustainable groundwater management as "management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results." Undesirable results are defined by SGMA as any of the following effects caused by groundwater extraction within the basin (DWR 2017):

- Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply;
- Significant and unreasonable reduction of groundwater storage;
- Significant and unreasonable seawater intrusion;
- Significant and unreasonable degraded water quality;
- · Significant and unreasonable land subsidence; or
- Depletions of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.

SGMA requires the following basic activities in groundwater basins and subbasins that are designated as medium or high priority by DWR:

- Formation of one or more GSAs in the basin or subbasin;
- Development (by one or more GSAs) of one or more GSPs in the basin or subbasin;
- Implementation of the GSPs to achieve sustainable groundwater management within 20 years of GSP adoption;
- · Regular reporting to DWR; and
- Periodic review and updating of the GSP.

DWR has designated 21 basins and subbasins as being in a state of critical overdraft (DWR 2016a). GSPs for these basins or subbasins must be adopted and submitted to DWR by January 31, 2020. GSPs for the remaining medium- and high-priority basins and subbasins must be adopted and submitted to DWR by January 31, 2022.

The subject of this GSP is a portion of the 180/400 Foot Aquifer Subbasin (Subbasin) (DWR Subbasin Number 3-004.01) of the Salinas Valley Groundwater Basin in the Central Coast Hydrologic Region of

California. The Subbasin is identified by DWR as subject to critical conditions of overdraft (DWR 2016a). As shown on Figure 1-1, four other subbasins of the Salinas Valley Basin adjoin the 180/400 Foot Aquifer Subbasin, including the East Side Aquifer and Langley Area Subbasins to the northeast (DWR Subbasin Numbers 3-004.02 and 3-004.09, respectively), the Forebay Aquifer Subbasin to the southeast (DWR Subbasin Number 3-004.04), and the Monterey Subbasin to the southwest (DWR Subbasin Number 3-004.10). The 180/400 Foot Aquifer Subbasin is bounded to the north by the Pajaro Valley Subbasin (DWR Basin Number 3-002.01), and to the northwest by the Pacific Ocean. The remaining subbasins in the Salinas Valley Basin are designated as medium- and high-priority by DWR, but not critically overdrafted.

#### 1.1 PURPOSE OF THE GSP

On March 20, 2018, the City of Marina's City Council formed the City of Marina Groundwater Sustainability Agency (MGSA) to develop and implement a GSP under SGMA in a portion of the Subbasin that lies within its jurisdictional limits, but outside the jurisdictional limits of the Marina Coast Water District (MCWD) GSA (Figure 1-2). The MGSA Area is bounded by the Pacific Ocean along the western border and includes Monterey County Assessor Parcel Numbers APN 203-011-001, APN 203-011-019, and APN 203-011-020. By letter dated April 16, 2018, MGSA notified DWR, pursuant to CWC § 10723.8(a), of its intent to become the exclusive GSA for this area.

The purpose of this GSP is to comply with the SGMA-mandated requirements for sustainable groundwater management within MGSA's jurisdictional area (hereinafter the MGSA Area). Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) is the lead agency for a GSP covering the remainder of the 180/400 Foot Aquifer Subbasin (SVBGSA 2019), pursuant to an agreement with the Marina Coast Water District (MCWD) GSA, which has SGMA jurisdictional authority over certain parts of the Subbasin. In addition, SVBGSA is the lead agency for GSPs covering four other Salinas Valley subbasins under SVBGSA jurisdiction that are not designated as critically overdrafted and will be submitted to DWR in 2022: the East Side Aquifer Subbasin, Forebay Aquifer Subbasin, Upper Valley Aquifer Subbasin (DWR Subbasin Number 3-004.05), and Langley Area Subbasin. SVBGSA and MCWD GSA each have SGMA jurisdictional authority over subareas of the Monterey Subbasin, which is adjacent to the south of the 180/400 Foot Aquifer Subbasin, and have entered into a Framework Agreement to prepare one single GSP for the Monterey Subbasin (SVBGSA 2018b). Additional information on jurisdictional areas within the MGSA Area and vicinity is provided in Section 2.1.1.

MGSA notes that on December 11, 2019, the Monterey County Board of Supervisors adopted Resolution 19-171 to create a new GSA in an effort to become the "exclusive" GSA for the MGSA Area. Pursuant to this resolution, County staff filed a GSA notification with DWR to become the GSA for the MGSA area, and on December 18, 2019, DWR posted the County's notification and designated the County the "exclusive" GSA for the MGSA Area. MGSA believes that these County actions and DWR's designation are invalid and ineffective under SGMA. On December 30, 2019, the City and MGSA filed litigation

challenging these actions and decisions. Since these matters are in litigation, MGSA does not address them further herein.

The 180/400 Foot Aquifer Subbasin is subject to significant and unreasonable seawater intrusion due largely to long-term groundwater extraction in the inland portions of the Subbasin in excess of the sustainable yield. As a result, it has been identified by DWR as being in a critical condition of overdraft (DWR 2016a). Seawater intrusion was first identified near the MGSA Area in the 1940s, and over the following decades progressed inland for a distance of over 7 miles in some areas. The purpose of this GSP is to support regional efforts to address this undesirable result and return the Subbasin to sustainable groundwater management within 20 years, as required by SGMA. MGSA will achieve this by supporting the projects and management actions that will be implemented by SVBGSA under its regional GSP, and by assuring that local groundwater resources are managed sustainably to protect local and regional beneficial uses and users.

MGSA has developed this locally-focused GSP to provide the framework necessary to ensure sustainable groundwater management in this portion of the Subbasin. This GSP will be implemented together with the regional SVBGSA GSP for the remainder of the Subbasin to sustainably manage the groundwater resources in the 180/400 Foot Aquifer Subbasin. A locally-focused GSP is needed in the MGSA Area to address the hydrogeologic conditions and management needs unique to this portion of the Subbasin.

As discussed in detail in Chapter 3, seawater intrusion was first monitored in the coastal area near the MGSA jurisdiction in 1947, and has been a topic of numerous investigations and monitoring programs by Monterey County Water Resources Agency (MCWRA), United States Geological Survey (USGS), and the proponents of various water supply and management projects. Most recently, subsurface investigation and groundwater monitoring were conducted within and in the vicinity of the MGSA Area by the proponents of the Monterey Peninsula Water Supply Project (MPWSP), and the area was investigated by a Stanford University research team using geophysical techniques as part of a larger study to assess the three-dimensional variability in aquifer stratigraphy and water salinity in the area of seawater intrusion along the Monterey Bay coastline. The GSP Emergency Regulations require that "[e]ach Plan shall rely on the best available information and best available science to quantify the water budget for the basin in order to provide an understanding of historical and projected hydrology, water demand, water supply, land use, population, climate change, sea level rise, groundwater and surface water interaction, and subsurface groundwater flow" (23 CCR § 354.18 (e)). In compliance with this requirement, this GSP objectively considers all the available data described above to provide a working understanding that is sufficient to address local hydrogeologic conditions, to understand the associated uncertainties and data gaps, and to develop plans to address them as needed to assure sustainable groundwater management.

The MGSA Area is at the seaward edge of an area affected by seawater intrusion that extends inland for several miles. The available hydrogeologic data indicate that the MGSA Area is underlain, in order of depth, by the Dune Sand Aquifer (DSA), the 180-Foot Aquifer, the 400-Foot Aquifer, and the Deep Aquifer. Near the shore, where the highest groundwater salinities have been documented, an interface

between a seawater intrusion wedge and a zone of higher quality groundwater (the low total dissolved solids [TDS] zone) that is locally recharged through the highly permeable Dune Sand Aquifer extends downward into the 180-Foot Aquifer. The existence of this interface was identified using geophysical methods, and is consistent with the available monitoring data as well as expected conditions at the shoreward face of a seawater-intruded aquifer system. The long screen intervals of the monitoring wells installed in the area limit the ability to confirm the exact salinity distribution in the aquifer and the variation in groundwater flow conditions, but the dynamics of similar interfaces in coastal aquifers have been studied for many years and their expected behavior is well understood. Such interfaces tend to follow the Ghyben-Herzberg relationship, for the names of the authors who first documented it between 1888 and 1901 (Ghyben 1888; Herzberg 1901). A state of equilibrium exists between a more saline, dense seawater intrusion wedge that tends to flow landwards, and an over-riding, less dense and higher quality groundwater zone that tends to flow shoreward. Based on the best available science, freshwater that flows from the Dune Sand Aquifer to the upper 180-Foot Aquifer contributes to maintaining this high-quality groundwater zone.

The exact effect of groundwater extraction in the MGSA Area on this interface has not been evaluated, but a probable effect is that capture of groundwater from the seaward-flowing higher quality water zone by extraction wells could decrease the extent and thickness of this zone, which could allow thickening and further landward or downward migration of the more dense saline water wedge. The aquitards that impede downward vertical migration of seawater-intruded groundwater between the 180-Foot and 400-Foot Aquifers elsewhere in the Subbasin are locally thin or absent in this area, potentially allowing higher density saline groundwater to migrate downward if the saline water wedge thickens or moves further inland. Finally, the underlying Deep Aquifer system provides a source of drinking water for the City of Marina and is not yet affected by seawater intrusion. However, MCWRA and SVBGSA, which are responsible for monitoring and regulating groundwater extraction in the seawater-intruded portion of the Subbasin, have stated that the hydraulic separation between the 400-Foot Aquifer and the Deep Aquifers is uncertain, and have therefore prohibited the expansion of groundwater extraction in the Deep Aquifers. As such, a key objective of the MGSA GSP is to protect the existing high quality waters in the Deep Aquifers underlying the MGSA Area.

This MGSA GSP describes local hydrogeologic conditions and establishes local sustainable management criteria to protect beneficial uses and users of groundwater in the MGSA Area, and, in coordination with the Monterey Subbasin GSP and the SVBGSA's GSP for the remainder of the 180/400 Foot Aquifer Subbasin, to ensure sustainable groundwater management in accordance with 23 CCR § 350.4(e). In addition, this GSP provides management actions for assuring sustainability, and includes monitoring and reporting protocols to document the long-term sustainability of locally managed groundwater resources now and into the future.

#### 1.2 SUSTAINABILITY GOAL

#### **Regulation Requirements:**

#### § 354.24. Sustainability Goal

Each Agency shall establish in its Plan a sustainability goal for the basin that culminates in the absence of undesirable results within 20 years of the applicable statutory deadline. The Plan shall include a description of the sustainability goal, including information from the basin setting used to establish the sustainability goal, a discussion of the measures that will be implemented to ensure that the basin will be operated within its sustainable yield, and an explanation of how the sustainability goal is likely to be achieved within 20 years of Plan implementation and is likely to be maintained through the planning and implementation horizon.

CWC § 10721 defines sustainable groundwater management as "the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results." A sustainability goal is the desired culmination of sustainable groundwater management, resulting in the maintenance of sustainable groundwater conditions (the absence of undesirable results), or their achievement within 20 years, when compared to a 2015 baseline condition. The sustainability goal reflects these requirements and succinctly states the GSAs' objectives and the desired conditions of the GSP area.

This GSP adopts SVBGSA's sustainability goal, which is stated as follows (SVBGSA 2019):

The goal of this GSP is to manage the groundwater resources of the 180/400-Foot Aquifer Subbasin for long-term community, financial, and environmental benefits to the Subbasin's residents and businesses. This GSP will ensure long-term viable water supplies while maintaining the unique cultural, community, and business aspects of the Subbasin. It is the express goal of this GSP to balance the needs of all water users in the Subbasin.

The local management objectives (CWC § 10728.2 Evaluation of Plan) in support of this goal include the following:

MGSA will manage groundwater resources in the MGSA Area in a way that ensures all beneficial uses and users in, or affected by, groundwater management in the MGSA Area are protected from undesirable results, and have access to a safe and reliable groundwater supply that meets current and future demand. This goal will support SVBGSA's sustainability goal by addressing undesirable results at a local level and protecting local resources from further degradation, while coordinating with MCWRA, SVBGSA and MCWD GSA to support regional groundwater management, including groundwater level and seawater intrusion monitoring, and mitigation projects and management actions that will contain and reverse the conditions resulting from regional overdraft. MGSA will:

 Support the protection of reliable groundwater supply and quality to promote the public health and welfare now and into the future;

- Ensure that groundwater is available for beneficial and potential beneficial uses, including all of the diverse municipal, domestic, agricultural, industrial, and environmental uses potentially affected by management actions within the MGSA;
- Protect the aguifers underlying the MGSA against further seawater intrusion;
- Comply with State Water Resources Control Board (SWRCB) Resolution No. 88-63, which designates all groundwaters of the state containing less than 3,000 milligrams per liter (mg/L) of TDS as having a potential beneficial use as a domestic or municipal drinking water supply and SWRCB Resolution No. 68-16, which requires the high quality of these waters to be maintained unless the state finds that certain specific conditions are met;
- Maintain or enhance groundwater levels and groundwater discharge where groundwaterdependent ecosystems (GDEs) exist near the MGSA Area;
- Maintain operational flexibility within the Subbasin, assuring that groundwater resources are available during times of drought without causing undesirable results;
- Account for changing groundwater conditions related to implementation of future groundwater supply projects, projected climate change, and sea level rise, in sustainability planning and management; and
- Coordinate with, support, and avoid undesirable results to neighboring GSAs and groundwater basins in regional efforts to achieve groundwater sustainability.

As discussed previously, MGSA is located at the seaward edge of the interface between the regional saline water wedge that has intruded into the 180-Foot and 400-Foot Aquifers, and an area of lower TDS (higher quality) groundwater that is locally recharged through the Dune Sand Aquifer. Groundwater quality underlying the MGSA Area has been affected by seawater intrusion for several decades as a result of inland overdraft conditions. A key objective of this GSP is to address these conditions at a more local level and protect local resources from further degradation, while coordinating with SVBGSA and MCWD GSA to support regional groundwater level and seawater intrusion monitoring and mitigation projects that will contain and reverse the conditions resulting from regional overdraft. Specifically, monitoring and management actions in the MGSA Area will be focused on preventing future undesirable results in the already degraded Dune Sand Aquifer, 180-Foot Aquifer and 400-Foot Aquifer; protecting the Deeper Aquifers from potential seawater intrusion; and coordinating with the neighboring GSAs to support regional sustainable management goals.

Based on the data discussed in Chapter 3 (Basin Setting), maintaining the groundwater elevations and thickness of the higher quality groundwater zone (low TDS zone) needed to protect against seawater intrusion will largely prevent undesirable results from occurring for all six sustainability indicators in the MGSA Area, and will support the sustainability goals of the neighboring GSAs. Coordination of efforts

among MGSA, SVBGSA, and MCWD GSA is discussed in Sections 1.3 and 1.4, and is intended to assure that the respective sustainability goals of each GSP are met, and that the interests of all beneficial users and uses of groundwater within the Subbasin and the adjacent Monterey Subbasin are protected. A more detailed explanation of how these goals will be met is discussed in Chapter 4 (Sustainable Management Criteria), Chapter 5 (Monitoring Network) and Chapter 6 (Projects and Management Actions).

#### 1.3 Intra-Basin Coordination Agreements

#### **Regulation Requirements:**

#### § 357.4. Coordination Agreements

- (a) Agencies intending to develop and implement multiple Plans pursuant to Water Code Section 10727(b)(3) shall enter into a coordination agreement to ensure that the Plans are developed and implemented utilizing the same data and methodologies, and that elements of the Plans necessary to achieve the sustainability goal for the basin are based upon consistent interpretations of the basin setting.
- (b) Coordination agreements shall describe the following:
- (1) A point of contact with the Department.
- (2) The responsibilities of each Agency for meeting the terms of the agreement, the procedures for the timely exchange of information between Agencies, and procedures for resolving conflicts between Agencies.
- (3) How the Agencies have used the same data and methodologies for assumptions described in Water Code Section 10727.6 to prepare coordinated Plans, including the following:
- (A) Groundwater elevation data, supported by the quality, frequency, and spatial distribution of data in the monitoring network and the monitoring objectives as described in Subarticle 4 of Article 5.
- **(B)** A coordinated water budget for the basin, as described in Section 354.18, including groundwater extraction data, surface water supply, total water use, and change in groundwater in storage.
- (C) Sustainable yield for the basin, supported by a description of the undesirable results for the basin, and an explanation of how the minimum thresholds and measurable objectives defined by each Plan relate to those undesirable results, based on information described in the basin setting.
- (c) The coordination agreement shall explain how the Plans implemented together, satisfy the requirements of the Act and are in substantial compliance with this Subchapter
- (d) The coordination agreement shall describe a process for submitting all Plans, Plan amendments, supporting information, all monitoring data and other pertinent information, along with annual reports and periodic evaluations.
- (e) The coordination agreement shall describe a coordinated data management system for the basin, as described in Section 352.6.
- (f) Coordination agreements shall identify adjudicated areas within the basin, and any local agencies that have adopted an Alternative that has been accepted by the Department. If an Agency forms in a basin managed by an Alternative, the Agency shall evaluate the agreement with the Alternative prepared pursuant to Section 358.4 and determine whether it satisfies the requirements of this Section.
- (g) The coordination agreement shall be submitted to the Department together with the Plans for the basin and, if approved, shall become part of the Plan for each participating Agency.
- (h) The Department shall evaluate a coordination agreement for compliance with the procedural and technical requirements of this Section, to ensure that the agreement is binding on all parties, and that provisions of the agreement are sufficient to address any disputes between or among parties to the agreement.
- (i) Coordination agreements shall be reviewed as part of the five-year assessment, revised as necessary, dated, and signed by all parties.

MGSA has attempted to negotiate in intra-basin coordination agreement with SVBGSA pursuant to CWC § 10727.6 and 23 CCR § 357.4 to ensure that the MGSA and SVBGSA GSPs for the Subbasin are developed and implemented using the same data and methodologies, and that elements of the GSPs necessary to achieve the sustainability goal for the Subbasin are based on consistent interpretations of

the Subbasin setting. MGSA developed a draft of this agreement and submitted it to SVBGSA for consideration in August 2019; however, SVBGSA failed to act on this agreement.

MGSA maintains its desire to coordinate local sustainable groundwater management with SVBGSA under this GSP pursuant to a Coordination Agreement. The language in this subsection of the GSP will be updated to reflect the Coordination Agreement if and when this occurs.

The Coordination Agreement will designate a point of contact with DWR, the responsibilities of each GSA for meeting the terms of the agreement, the procedures for the timely exchange of information between the GSAs, and procedures for resolving conflicts. [A copy of the agreement will be included as an appendix to this GSP when executed (Appendix 1.A, PLACEHOLDER).]

The designated point of contact with DWR for sustainable groundwater management in the 180/400 Foot Aquifer Subbasin is the following:

[Layne Long
City of Marina
Marina Groundwater Sustainability Agency
211 Hillcrest Avenue
Marina, California 93933
Phone: (831) 884-1212
Email: Ilong@cityofmarina.org

[The designated point of contact will be updated when the Coordination Agreement is executed.]

The Coordination Agreement specifically will address the following requirements of 23 CCR § 357 and specifies how MGSA and SVBGSA will collaborate to use the same data and methodologies described in CWC § 10727.6 for coordinated GSP preparation and implementation:

- Coordinated data collection, management and exchange, including common methodologies and data for: a) groundwater elevation data; b) groundwater extraction data; c) surface water supply; d) total water use; e) changes in groundwater storage; f) water budgets; and g) sustainable yield;
- Adoption of shared or complementary sustainability indicators for: a) chronic lowering of groundwater levels; b) reduction in groundwater storage; c) degraded water quality; d) seawater intrusion; and e) land subsidence;
- Collaboration in the establishment of monitoring networks and protocols, including coordinating the methods and frequency of measurement for: a) the amount of current and projected groundwater use; b) aquifer characterization; and c) potential impacts to beneficial uses and users of groundwater and property interests; and

Coordinated water budget accounting procedures including assessment of the total annual
volume of groundwater and surface water entering and leaving the Subbasin; historical, current
and projected water budget conditions; changes in groundwater storage; and estimates of
future baseline conditions of supply, water demand, and surface water supply availability or
reliability over the planning and implementation horizon.

The Coordination Agreement will explain how SGMA is satisfied by the coordinated GSP implementation, and describes a process for submitting the GSPs, Plan amendments, supporting information, monitoring data, and other pertinent information, annual reports, and periodic evaluations [this language will be updated when the agreement is executed]. The Coordination Agreement will describe a coordinated data management system (DMS) for the Subbasin and identifies adjudicated areas within the Subbasin [this language will be updated when the agreement is executed].

MGSA and MCWD GSA will also negotiate an intra-basin Coordination Agreement because MCWD GSA is an authorized GSA for the Marina and Ord subareas of the Subbasin within MCWD GSA's jurisdictional boundaries. MCWD GSA and SVBGSA have agreed that SVBGSA will prepare the GSP for these areas and to actively consult with each other and review draft work products during the GSP development process for the 180/400 Foot Aquifer.

#### 1.4 Inter-Basin Coordination Agreements

#### **Regulation Requirements:**

#### § 357.2. Interbasin Agreements

Two or more Agencies may enter into an agreement to establish compatible sustainability goals and understanding regarding fundamental elements of the Plans of each Agency as they relate to sustainable groundwater management. Interbasin agreements may be included in the Plan to support a finding that implementation of the Plan will not adversely affect an adjacent basin's ability to implement its Plan or impede the ability to achieve its sustainability goal. Interbasin agreements should facilitate the exchange of technical information between Agencies and include a process to resolve disputes concerning the interpretation of that information. Interbasin agreements may include any information the participating Agencies deem appropriate, such as the following:

#### (a) General information:

- (1) Identity of each basin participating in and covered by the terms of the agreement.
- (2) A list of the Agencies or other public agencies or other entities with groundwater management responsibilities in each basin.
- (3) A list of the Plans, Alternatives, or adjudicated areas in each basin.
- (b) Technical information:
- (1) An estimate of groundwater flow across basin boundaries, including consistent and coordinated data, methods, and assumptions.
- (2) An estimate of stream-aquifer interactions at boundaries.
- (3) A common understanding of the geology and hydrology of the basins and the hydraulic connectivity as it applies to the Agency's determination of groundwater flow across basin boundaries and description of the different assumptions utilized by different Plans and how the Agencies reconciled those differences.
- (4) Sustainable management criteria and a monitoring network that would confirm that no adverse impacts result from the implementation of the Plans of any party to the agreement. If minimum thresholds or measurable objectives differ substantially between basins, the agreement should specify how the Agencies will reconcile those differences and manage the basins to avoid undesirable results. The Agreement should identify the differences that the parties consider significant and include a plan and schedule to reduce uncertainties to collectively resolve those uncertainties and differences.
- (c) A description of the process for identifying and resolving conflicts between Agencies that are parties to the agreement.
- (d) Interbasin agreements submitted to the Department shall be posted on the Department's website.

MGSA will develop a voluntary inter-basin Coordination Agreement with MCWD GSA to ensure that preparation and implementation of this GSP is effectively coordinated with the GSP in the adjacent Monterey Subbasin that is being prepared by MCWD GSA and SVBGSA, that each subbasin's sustainability goals are met, and that the interests of all beneficial water users and uses in each subbasin are recognized and protected [this language will be updated when the agreement is executed]. [A copy of the inter-basin agreement will be included as an appendix to this GSP when executed (Appendix 1.B, PLACEHOLDER)]. The inter-basin agreement will ensure that implementation of the MGSA GSP will not adversely affect the ability of MCWD to implement its GSP or impede the ability to achieve its sustainability goal [this language will be updated when the agreement is executed]. In addition, the inter-basin agreement should facilitate the exchange of technical information between MGSA and MCWD GSA, and will include a process to resolve disputes concerning the interpretation of that information [this language will be updated when the agreement is executed]. Technical information to be coordinated across subbasin boundaries includes the following:<sup>1</sup>

- Estimates of groundwater flow across GSA Area boundaries, including consistent and coordinated data, methods, and assumptions;
- A common understanding of the geology and hydrology within the adjacent subbasins, hydraulic
  connectivity as it applies to the determination of groundwater flow across GSA Area boundaries,
  a description of the different assumptions used by MGSA and MCWD GSA for their individual
  GSPs, and how differences are reconciled; and
- Sustainable management criteria and a monitoring network that confirm that no adverse impacts will result from the implementation of MGSA and MCWD GSPs.

The agreement will specify how MGSA and MCWD GSA will reconcile differences and manage the groundwater resources to avoid undesirable results if minimum thresholds or measurable objectives differ substantially between GSA Areas [this language will be updated when the agreement is executed]. The agreement will also identify the differences that are considered significant and includes a plan and schedule to reduce and collectively resolve uncertainties and differences [this language will be updated when the agreement is executed].

#### 1.5 AGENCY INFORMATION

Three GSAs are responsible for SGMA implementation in portions of the 180/400 Foot Aquifer Subbasin: SVBGSA, MCWD GSA, and MGSA. DWR considers none of these three GSAs to be exclusive GSAs for the entire Subbasin; however, MCWD GSA is the exclusive GSA for that portion of the Subbasin within its jurisdictional boundaries. MGSA submitted a letter to DWR on April 16, 2018 (Appendix 1.C), providing notification that the City of Marina, a California charter city, elected to become a GSA pursuant to CWC

<sup>&</sup>lt;sup>1</sup> Because there are no streams that cross or are shared along the Subbasin boundaries between MGSA and MCWD GSA, no coordination is needed regarding estimates of stream-aquifer interactions at GSA Area boundaries.

§ 10723(a), for the MGSA Area within its jurisdictional limits, but which lies outside the jurisdictional limits of MCWD. The City of Marina has land use responsibilities in this area. MGSA intends to undertake sustainable groundwater management for the designated portion of the 180/400 Foot Aquifer Subbasin. The jurisdictional areas of all three GSAs in relation to the 180/400 Foot Aquifer Subbasin boundaries are shown on Figure 1-3.

A copy of Resolution No. 2018-25 of the City Council electing to become a GSA for a portion of the Subbasin is attached as Appendix 1.D. The Resolution was adopted on March 20, 2018, immediately following a legally noticed public hearing. A copy of the proof of publication of the hearing notice is attached as Appendix 1.E.

#### 1.5.1 NAME AND MAILING ADDRESS OF MGSA

#### **Regulation Requirements:**

§ 354.6(a) The name and mailing address of the Agency

The mailing address and other contact information for MGSA is as follows:

Brian McMinn
City of Marina Groundwater Sustainability Agency
211 Hillcrest Avenue
Marina, CA 93933
Phone: (831) 884-1212

Email: bmcminn@cityofmarina.org

#### 1.5.2 ORGANIZATION AND MANAGEMENT STRUCTURE OF MGSA

#### **Regulation Requirements:**

§ 354.6(b) The organization and management structure of the Agency, identifying persons with management authority for implementation of the Plan.

MGSA is administered by the City of Marina's City Council. The Marina City Council is comprised of the Mayor and four other City Council Members. MGSA board meetings are held concurrently with City Council meetings, usually at 5:30 p.m. (closed session) and 6:30 p.m. (open session) on the first and third Tuesdays of each month in accordance with the Marina Municipal Code (Chapter 2.04) and City Ordinances: 2001-11 § 1 (2001), 78-12 § 1 (1978), and 75-2 § 1 (1975). The meetings are publicly noticed and agendas are made available on the City's website (<a href="https://www.cityofmarina.org/AgendaCenter">https://www.cityofmarina.org/AgendaCenter</a>). The City has full power and authority to adopt, make, exercise, and enforce all legislation, laws, and regulations; to take actions relating to all municipal affairs in general; and to undertake administration of the GSA and GSP, and all other matters related to SGMA implementation and compliance. Resolutions presented to the MGSA board are voted on and require a majority vote of a quorum to be passed and adopted. Open public hearings on specific resolutions may be held during meetings to allow for testimony from the public. Public testimony is considered prior to voting on specific resolutions.

#### 1.5.3 Name and Contact Information of Plan Manager

#### **Regulation Requirements:**

§ 354.6(c) The name and contact information, including the phone number, mailing address and electronic mail address, of the plan manager.

The City of Marina Public Works Director/City Engineer has been designated as Plan Manager for this GSP. Contact information is as follows:

Brian McMinn, Plan Manager City of Marina Groundwater Sustainability Agency 211 Hillcrest Avenue Marina, CA 93933 Phone: (831) 884-1212

Email: bmcminn@citvofmarina.org

Website: https://cityofmarina.org/918/Groundwater-Sustainability-Plan

#### 1.5.4 LEGAL AUTHORITY OF MGSA

#### **Regulation Requirements:**

§ 354.6(d) The legal authority of the Agency, with specific reference to citations setting forth the duties, powers, and responsibilities of the Agency, demonstrating that the Agency has the legal authority to implement the plan.

MGSA was formed in accordance with the requirements of CWC §§ 10723, et seq. The resolution of formation of MGSA is included in Appendix 1.D. The City of Marina is incorporated under the laws of the State of California. The City of Marina provides water supply and land use planning services to its residents and is therefore a local agency under CWC § 10721 with the authority to establish itself as a GSA. Formation of MGSA gives the City of Marina the authority to regulate groundwater uses within the MGSA Area.

#### 1.5.5 ESTIMATE OF COST OF IMPLEMENTING THE MGSA GSP

#### **Regulation Requirements:**

§ 354.6(e) An estimate of the cost of implementing the Plan and a general description of how the Agency plans to meet those costs.

Implementation of the MGSA GSP requires additional funding sources. MGSA will apply for grants from outside sources to assist in reducing the cost of implementation for City of Marina residents, landowners, and cooperating agencies. However, there will be a need to collect funds from groundwater extractors within the MGSA Area to support implementation. For budgetary purposes, the estimated initial cost of implementation activities is \$220,000 per year, including management action costs. MGSA and Marina City Council will evaluate options for securing the needed funding. Chapter 7 (Plan Implementation) provides additional information on GSP implementation costs and funding sources.

#### 1.6 GSP Organization and Preparation Checklist

This GSP was developed using the following documents and is consistent with requirements of the GSP Regulations and SGMA:

- Guidance Document for the Sustainable Management of Groundwater, Groundwater Sustainability Plan Annotated Outline (DWR 2016b);
- Guidance Document for the Sustainable Management of Groundwater, Preparation Checklist for GSP Submittal (DWR 2016c); and
- Groundwater-Dependent Ecosystems under the Sustainable Groundwater Management Act: Guidance for Preparing Groundwater Sustainability Plans (TNC 2018).

The remainder of the MGSA GSP is organized as follows:

Chapter 2 - Plan Area

Chapter 3 – Basin Setting

Chapter 4 – Sustainable Management Criteria

Chapter 5 – Monitoring Network

Chapter 6 – Projects and Management Actions

Chapter 7 – Plan Implementation

Chapter 8 – References

The Preparation Checklist for the GSP is provided in Table 1-1.

The Executive Summary and Chapters 1 through 8 (text, tables, figures, and appendices) are provided in Volume I. Comments received on the October 2019 Public Review Draft GSP, Master Responses, and the Response to Comment Matrix are provided in Volume II.

TABLE 1-1. PREPARATION CHECKLIST FOR MGSA GSP SUBMITTAL

GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
Article 3. Tec	hnical and Repo	rting Standards		
352.2		Monitoring Protocols	<ul> <li>Monitoring protocols adopted by the GSA for data collection and management</li> <li>Monitoring protocols that are designed to detect changes in groundwater levels, groundwater quality, inelastic surface subsidence for basins for which subsidence has been identified as a potential problem, and flow and quality of surface water that directly affect groundwater levels or quality or are caused by groundwater extraction in the basin</li> </ul>	Appx 5.B Appx 5.B Appx 5.C
Article 5. Pla	n Contents, Suba	article 1. Administ	rative Information	
354.4		General Information	<ul><li>Executive Summary</li><li>List of references</li></ul>	Ex Sum 8.0
354.6		Agency Information	<ul> <li>GSA mailing address</li> <li>Organization and management structure</li> <li>Contact information of Plan Manager</li> <li>Legal authority of GSA</li> <li>Estimate of implementation costs</li> </ul>	1.5.1 1.5.2 1.5.3 1.5.4 1.5.5
354.8(a)	10727.2(a)(4)	Map(s)	<ul> <li>Area covered by GSP</li> <li>Adjudicated areas, other agencies within the basin, and areas covered by an Alternative</li> <li>Jurisdictional boundaries of federal or state land</li> <li>Existing land use designations</li> <li>Density of wells per square mile</li> </ul>	Fig 1-2 Fig 1-3 Fig 2-4 Fig 2-7 Fig 2-9 Fig 2-10 Fig 2-11
354.8(b)		Description of the Plan Area	Summary of jurisdictional areas and other features	2.1
354.8(c) 354.8(d) 354.8(e)	10727.2(g)	Water Resource Monitoring and Management Programs	<ul> <li>Description of water resources monitoring and management programs</li> <li>Description of how the monitoring networks of those plans will be incorporated into the GSP</li> <li>Description of how those plans may limit operational flexibility in the basin</li> <li>Description of conjunctive use programs</li> </ul>	2.2.1 - 2.2.7 2.2.8 2.2.9 2.2.10
354.8(f)	10727.2(g)	Land Use Elements or Topic	Summary of general plans and other land use plans	2.3.1

<sup>&</sup>lt;sup>2</sup> Volume I: Executive Summary and Chapters 1 through 8 (text, tables, figures, and appendices).

Volume II: Comments on 2019 Public Review Draft GSP, Master Responses, and Response to Comment Matrix

GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
		Categories of Applicable General Plans	<ul> <li>Description of how implementation of the GSP may change water demands or affect achievement of sustainability and how the GSP addresses those effects</li> </ul>	2.3.2
			• Description of how implementation of the GSP may affect the water supply assumptions of relevant land use plans	2.3.3
			<ul> <li>Summary of the process for permitting new or replacement wells in the basin</li> </ul>	2.3.4
			<ul> <li>Information regarding the implementation of land use plans outside the basin that could affect the ability of the Agency to achieve sustainable groundwater management</li> </ul>	2.3.5
354.8(g)	10727.4	Additional GSP	Description of Actions related to:	
		Contents	<ul> <li>Control of saline water intrusion</li> </ul>	2.4.1
			Wellhead protection	2.4.2
			<ul> <li>Migration of contaminated groundwater</li> </ul>	2.4.3
			<ul> <li>Well abandonment and well destruction program</li> </ul>	2.4.4
			<ul> <li>Replenishment of groundwater extractions</li> </ul>	2.4.5
			<ul> <li>Conjunctive use and underground storage</li> </ul>	2.4.6
			<ul> <li>Well construction policies</li> </ul>	2.4.7
			<ul> <li>Addressing groundwater contamination cleanup, recharge, diversions to storage, conservation, water recycling, conveyance, and extraction projects</li> </ul>	2.4.8
			<ul> <li>Efficient water management practices</li> </ul>	2.4.9
			<ul> <li>Relationships with state and federal regulatory agencies</li> </ul>	2.4.10
			<ul> <li>Review of land use plans and efforts to coordinate with land use planning agencies to assess activities that potentially create risks to groundwater quality or quantity</li> </ul>	2.4.11
			• Impacts on groundwater-dependent ecosystems	2.4.12
354.10		Notice and	Description of beneficial uses and users	2.5.1
		Communication	List of public meetings	2.5.3
			GSP comments and responses	Volume II
			Decision-making process	2.5.2
			Public engagement	2.5.3
			<ul> <li>Encouraging active involvement</li> </ul>	2.5.4
			<ul> <li>Informing the public on GSP implementation progress</li> </ul>	MGSA Website
Article 5. Pla	n Contents, Suba	article 2. Basin Set	ting	
354.14		Hydrogeologic	Description of the Hydrogeologic Conceptual	3.1
		Conceptual Model	Model  Two scaled cross-sections	Fig 3-11 to

GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
			Map(s) of physical characteristics: topographic information, surficial geology, soil characteristics, surface water bodies, source and point of delivery for imported water supplies	Fig 3-4 Fig 3-5 Fig 3-6 Fig 3-7 Fig 3-8 Fig 3-9 Fig 3-10
354.14(c)(4)	10727.2(a)(5)	Map of Recharge Areas	Map delineating existing recharge areas that substantially contribute to the replenishment of the basin, potential recharge areas, and discharge areas	Fig 3-19
	10727.2(d)(4)	Recharge Areas	• Description of how recharge areas identified in the plan substantially contribute to the replenishment of the basin	3.1.11
354.16	10727.2(a)(1)	Current and	Groundwater elevation data	3.2.1
	10727.2(a)(2)	Historical	<ul> <li>Estimate of groundwater storage</li> </ul>	3.2.2
		Groundwater	<ul> <li>Seawater intrusion conditions</li> </ul>	3.2.3
		Conditions	<ul> <li>Groundwater quality issues</li> </ul>	3.2.4
			<ul> <li>Land subsidence conditions</li> </ul>	3.2.5
			<ul> <li>Identification of interconnected surface water systems</li> <li>Identification of groundwater-dependent</li> </ul>	3.2.6.1
			ecosystems	
354.18	10727.2(a)(3)	Water Budget	Description of inflows, outflows, and change in	3.3.5 to
		Information	storage	3.3.8
			<ul> <li>Quantification of overdraft</li> </ul>	3.3.12
			<ul> <li>Estimate of sustainable yield</li> </ul>	3.3.13
			<ul> <li>Quantification of current, historical, and projected</li> </ul>	3.3.9 to
			water budgets	3.3.11
	10727.2(d)(5)	Surface Water Supply	<ul> <li>Description of surface water supply used or available for use for groundwater recharge or in-lieu use</li> </ul>	3.3.6
354.20		Management	Reason for creation of each management area	NA
		Areas	Minimum thresholds and measurable objectives for each management area	NA
			<ul> <li>Level of monitoring and analysis</li> </ul>	NA
			<ul> <li>Explanation of how management of management areas will not cause undesirable results outside the management area</li> </ul>	NA
			Description of management areas	NA
Article 5. Plar	n Contents, Suba	article 3. Sustainal	ole Management Criteria	
354.24		Sustainability Goal	Description of the sustainability goal	4.2

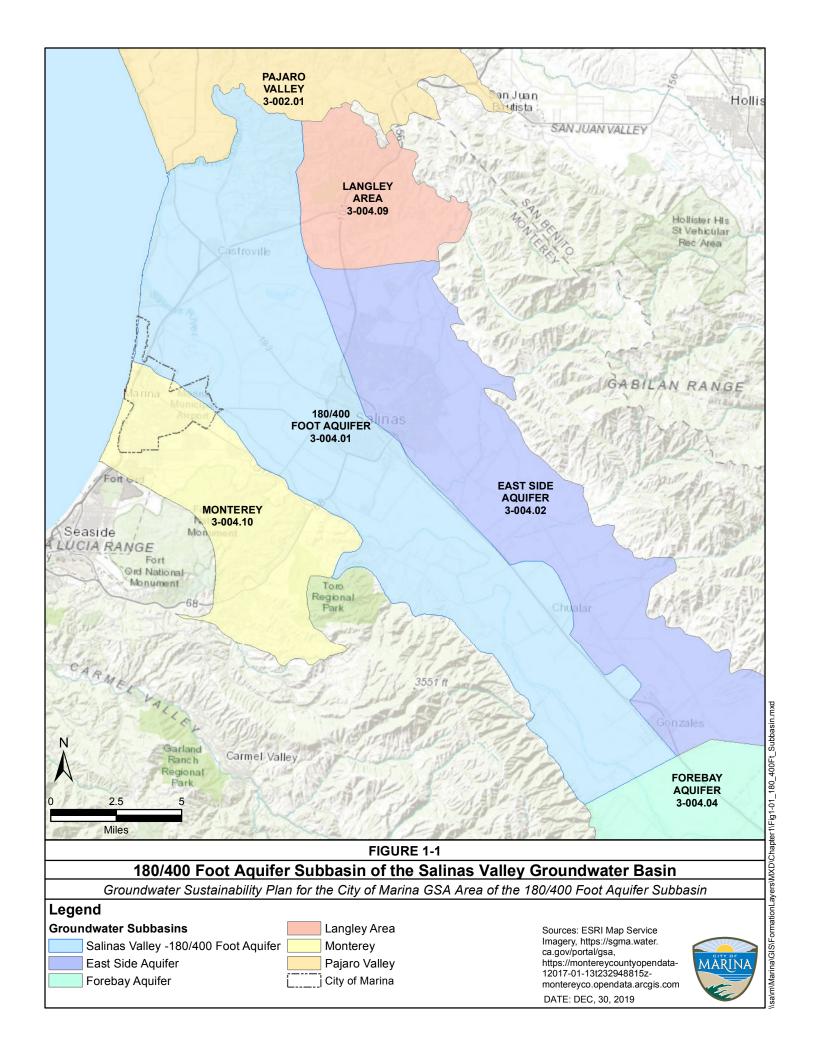
GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
354.26		Undesirable Results	<ul> <li>Description of undesirable results</li> <li>Cause of groundwater conditions that would lead to undesirable results</li> <li>Criteria used to define undesirable results for each sustainability indicator</li> <li>Potential effects of undesirable results on beneficial uses and users of groundwater</li> </ul>	4.4.1 4.5.1 4.6.1 4.7.1 4.8.1 4.9.1
354.28	10727.2(d)(1) 10727.2(d)(2)	Minimum Thresholds	<ul> <li>Description of each minimum threshold and how they were established for each sustainability indicator</li> <li>Relationship for each sustainability indicator</li> <li>Description of how selection of the minimum threshold may affect beneficial uses and users of groundwater</li> <li>Standards related to sustainability indicators</li> <li>How each minimum threshold will be quantitatively measured</li> </ul>	4.4.2 4.5.2 4.6.2 4.7.2 4.8.2 4.9.2
354.30	10727.2(b)(1) 10727.2(b)(2) 10727.2(d)(1) 10727.2(d)(2)	Measurable Objectives	<ul> <li>Description of establishment of the measurable objectives for each sustainability indicator</li> <li>Description of how a reasonable margin of safety was established for each measurable objective</li> <li>Description of a reasonable path to achieve and maintain the sustainability goal, including a description of interim milestones</li> </ul>	4.4.3 4.5.3 4.6.3 4.7.3 4.8.3 4.9.3
Article 5. Pla	n Contents, Suba	article 4. Monitor	ing Networks	
354.34	10727.2(d)(1) 10727.2(d)(2) 10727.2(e) 10727.2(f)	Monitoring Networks	<ul> <li>Description of monitoring network</li> <li>Description of monitoring network objectives</li> <li>Description of how the monitoring network is designed to: demonstrate groundwater occurrence, flow directions, and hydraulic gradients between principal aquifers and surface water features; estimate the change in annual groundwater in storage; monitor seawater intrusion; determine groundwater quality trends; identify the rate and extent of land subsidence; and calculate depletions of surface water caused by groundwater extractions</li> <li>Description of how the monitoring network provides adequate coverage of Sustainability Indicators</li> <li>Density of monitoring sites and frequency of measurements required to demonstrate short-term, seasonal, and long-term trends</li> <li>Scientific rationale (or reason) for site selection</li> </ul>	5.1 5.1.1 5.2.1 5.2.2 5.2.2 5.2.3
			seasonal, and long-term trends	5.2.4.1 5.2.4.2

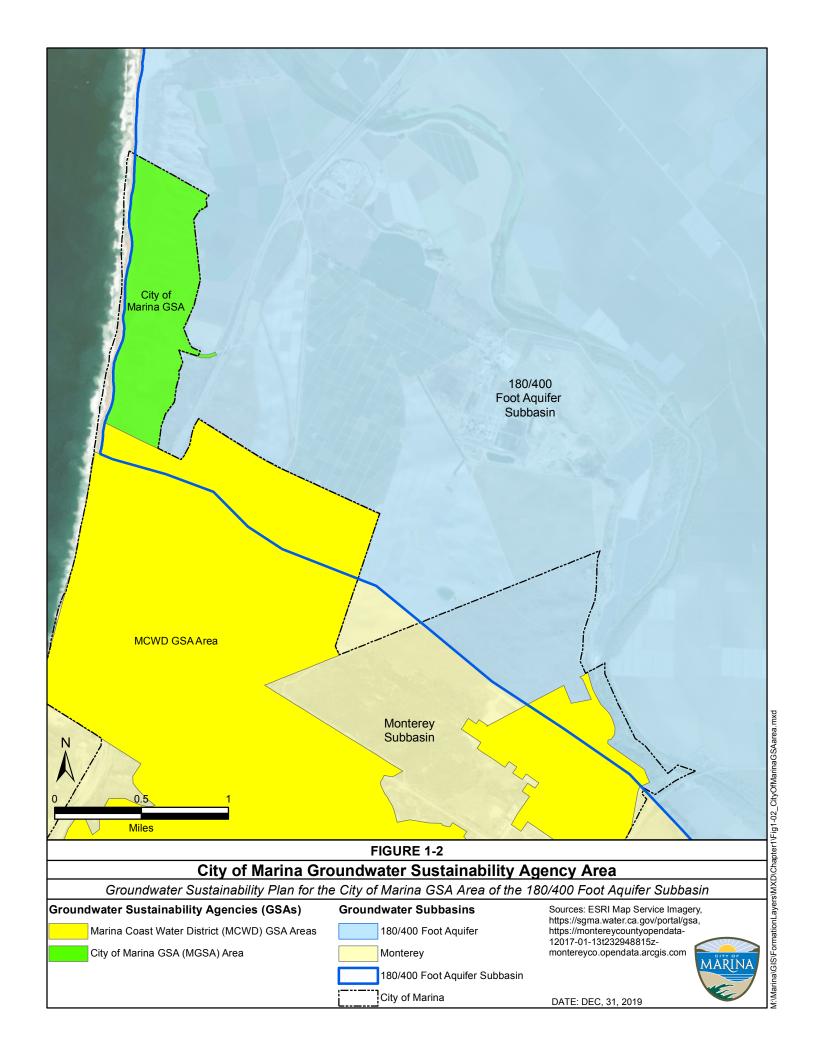
GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
			<ul> <li>Corresponding sustainability indicator, minimum threshold, measurable objective, and interim milestone</li> </ul>	5.2.6
			• Location and type of each monitoring site within the basin displayed on a map, and reported in tabular format, including information regarding the monitoring site type, frequency of measurement, and the purposes for which the monitoring site is being used	Fig 5-2
			• Description of technical standards, data collection methods, and other procedures or protocols to ensure comparable data and methodologies	5.2.5
354.36		Representative Monitoring	<ul> <li>Description of representative sites</li> <li>Demonstration of adequacy of using groundwater elevations as proxy for other sustainability indicators</li> </ul>	5.1.3 5.2.6
			<ul> <li>Adequate evidence demonstrating that site reflects general conditions in the area</li> </ul>	5.2.1
354.38		Assessment and	Review and evaluation of the monitoring network	5.1.4
		Improvement	<ul> <li>Identification and description of data gaps</li> </ul>	5.2.7
		of Monitoring	<ul> <li>Description of steps to fill data gaps</li> </ul>	5.2.7
		Network	<ul> <li>Description of monitoring frequency and density of sites</li> </ul>	5.2.3
354.44		Projects and Management	• Description of projects and management actions that will help achieve the basin's sustainability goal	6.1
		Actions	• Measurable objective that is expected to benefit from each project and management action	6.2.1.2
			Circumstances for implementation	6.2.1.4
			Public noticing	6.4
			<ul> <li>Permitting and regulatory process</li> </ul>	6.2.1.5
			• Time-table for initiation and completion, and the accrual of expected benefits	6.2.1.6
			• Expected benefits and how they will be evaluated	6.2.1.3
			<ul> <li>How the project or management action will be accomplished. If the projects or management</li> </ul>	6.2.1.1
			actions rely on water from outside the jurisdiction	
			of the Agency, an explanation of the source and	
			reliability of that water shall be included.	
			Legal authority required	6.3
			<ul> <li>Estimated costs and plans to meet those costs</li> <li>Management of groundwater extractions and recharge</li> </ul>	6.2.1.7 NA
354.44(b)(2)	10727.2(d)(3)		Overdraft mitigation projects and management actions	6.5

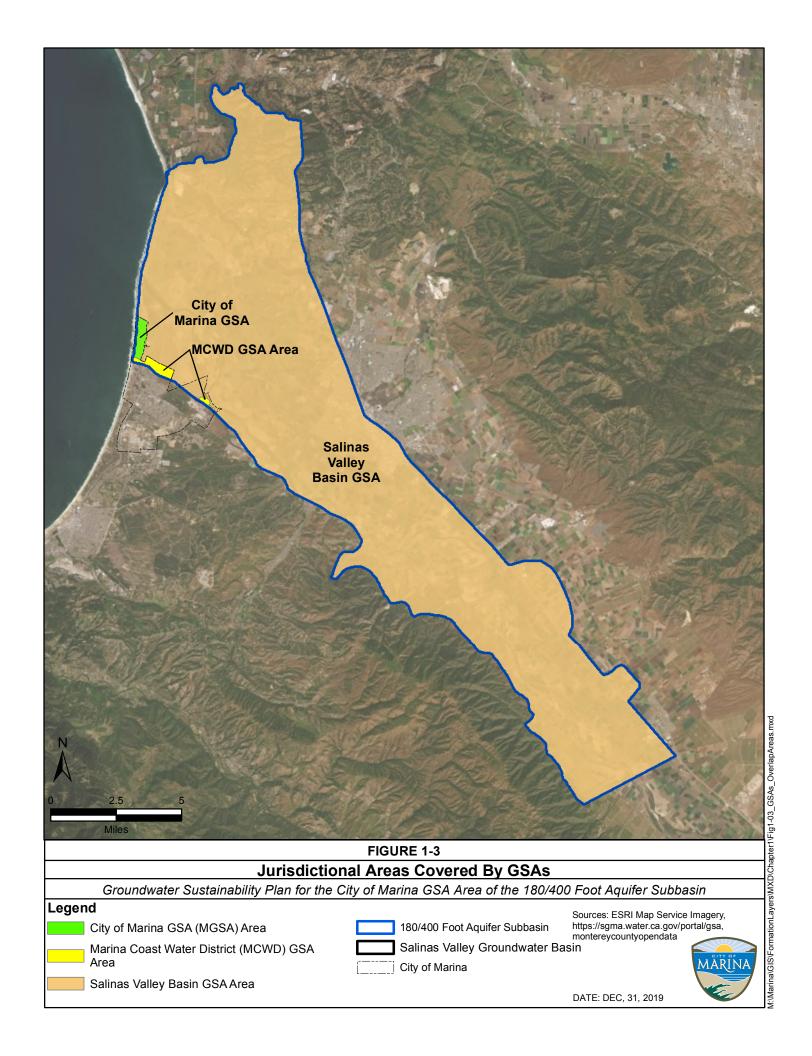
GSP Regulations Section	Water Code Section	Requirement	Description	Section Number in GSP <sup>2</sup>
Article 8. Inte	eragency Agreen	nents		
357.4	10727.6	Coordination	Coordination Agreements shall describe the	1.3
		Agreements -	following:	1.4
		Shall be	A point of contact	TBD
		submitted to	<ul> <li>Responsibilities of each Agency</li> </ul>	TBD
		the Department together with	• Procedures for the timely exchange of information between Agencies	TBD
		the GSPs for the basin and, if	<ul> <li>Procedures for resolving conflicts between Agencies</li> </ul>	TBD
		approved, shall become part of	<ul> <li>How the Agencies have used the same data and methodologies to coordinate GSPs</li> </ul>	TBD
		the GSP for each	How the GSPs implemented together satisfy the requirements of SGMA	TBD
		participating Agency	<ul> <li>Process for submitting all Plans, Plan amendments, supporting information, all monitoring data and other pertinent information, along with annual reports and periodic evaluations</li> </ul>	TBD
			A coordinated data management system for the basin	TBD
			<ul> <li>Identification of adjudicated areas within the basin, and any local agencies that have adopted an alternative that has been accepted by the Department</li> </ul>	NA

Notes: Volume I: Executive Summary, Chapters 1 through 8 text, tables, figures, and appendices.

Volume II: Comments on 2019 Public Review Draft GSP, Master Responses, and Response to Comment Matrix







# APPENDIX 1.A – SVBGSA INTRA-BASIN COORDINATION AGREEMENT (PLACEHOLDER)

# APPENDIX 1.B – MCWD GSA INTER-BASIN COORDINATION AGREEMENT (PLACEHOLDER)

### **APPENDIX 1.C – GSA NOTIFICATION LETTER**

### City of Marina



City of Marina
211 HILLCREST AVENUE
MARINA, CA 93933
831- 884-1212; FAX 831- 384-0425
www.ci.marina.ca.us

VIA EMAIL AND U.S. MAIL Mark.Nordberg@water.ca.gov

April 16, 2018

Mr. Mark Nordberg
GSA Project Manager
California Department of Water Resources
901 P Street, Room 213A
P.O. Box 942836
Sacramento, California 94236-0001

Subject: Notice of the City of Marina GSA Intent to Serve as a Groundwater

Sustainability Agency for a Portion of the Salinas Valley Groundwater Basin

180/400 Foot Aquifer Subbasin in Monterey County.

Dear Mr. Nordberg:

This letter is provided as notification to the California Department of Water Resources (DWR) that the City of Marina (City), a California charter city, has elected to become a Groundwater Sustainability Agency (GSA) pursuant to Water Code Section 10723(a). The information provided herein, and the documents enclosed, are provided in compliance with the requirements for notification under Section 10723.8(a).

In the Bulletin 118 Interim 2016 Update, the DWR officially designated eight subbasins of the Salinas Valley Groundwater Basin (SVGB). The City has land use responsibilities and intends to undertake sustainable groundwater management for a portion of the 180/400 Foot Aquifer Subbasin of the SVGB as shown on the map attached as **Exhibit A**. The City's GSA boundaries are entirely within the City's jurisdictional limits and include Monterey County Assessor Parcel Numbers (APN) 203-011-001; 203-011-019; 203-011-020; and portions of APN 203-011-023; 175-011-046; 175-011-031; and 203-011-011.

A copy of the Resolution 2018-25 of the City Council electing to become a GSA for a portion of the 180/400 Foot Aquifer Subbasin is attached as **Exhibit B**. The Resolution was adopted on March 20, 2018, immediately following a legally noticed public hearing. A copy of the proof of publication of the hearing notice is attached as **Exhibit C**.

The City has engaged and is seeking to work cooperatively with other local agencies overlying the 180/400 Foot Aquifer Subbasin as required by the 2014 Sustainable Groundwater Management Act (SGMA) including preparation of a Groundwater Sustainability Plan (GSP) in accordance with California Water Code Section 10727. Other local agencies that have formed a GSA within (or near) the southwest coastal portion of the 180/400 Foot Aquifer Subbasin include

City of Marina - GSA Notification Letter Mr. Mark Nordberg April 13, 2018 Page 2

the Salinas Valley Basin Groundwater Sustainability Agency and the Marina Coast Water District. There are no local agencies with service areas overlapping those of the City.

In accordance with GSA Formation Notification Guidelines for Local Agencies, the City submits the following information:

#### Information Submitted within 30 Days

The City conducted a public hearing on March 20, 2018 in accordance with Water Code section 10723(b), to elect to become a GSA.

#### Map and Description of Service Area Boundaries

The City's service area is depicted on **Exhibit A**. The service area is in the southwest portion of the 180/400 Foot Aquifer Subbasin and is bounded by the Pacific Ocean along the western border. There are no other local agencies with overlapping service area boundaries.

#### Resolution

A copy of Resolution No. 2018-25 electing to become a GSA for a portion of the 180/400 Foot Aquifer Subbasin is attached as **Exhibit B**. Notice of public hearing regarding the City's consideration in becoming a GSA was published per Government Code §6066 and proof of publication of the public hearing regarding the City's intent to become a GSA is attached as **Exhibit C**.

#### New Bylaws, Ordinances, or New Authorities

The City has not adopted any new bylaws, ordinances, or new authorities in electing to become a GSA.

The City has identified the following interested parties pursuant to Water Code Section 10723.2:

- 1. Local Water Districts within or adjoining the GSA:
  - a. Marina Coast Water District
- 2. Holders of Overlying Groundwater Rights: agricultural and domestic well owners, municipal well operators and public water systems:
  - a. Armstrong Ranch
  - b. CEMEX
- 3. Surface Water Users:
  - a. Monterey One Water and Monterey County Water Resources Agency for the Castroville Seawater Intrusion Project
- 4. Environmental Users of groundwater:
  - a. Fort Ord Dunes State Park
  - b. Marina Beach State Park
- 5. Local Land Use Planning Agencies:

City of Marina - GSA Notification Letter Mr. Mark Nordberg April 13, 2018 Page 3

- a. City of Marina
- b. County of Monterey
- 6. Federal Government:
  - a. No federal lands are within the City's proposed GSA management area.
- 7. California Native American Tribes:
  - a. None within the City's proposed GSA management area.
- 8. Disadvantaged Communities:
  - a. None identified
- 9. Entities listed in California Water Code Section 10927 that are monitoring and reporting groundwater elevations in all or part of the basins to be managed by the City as the designated GSA:
  - a. Monterey County Water Resources Agency
  - b. Salinas Valley Basin Groundwater Sustainability Agency
- 10. Other Entities:
  - a. Marina Coast Water District GSA
  - GSAs that may be formed to manage other portions of the 180/400 Foot Aquifer Subbasin
  - c. California-American Water Company

The list of interested parties will continue to be updated throughout the City's development and implementation of a GSP for the GSA area. As required by the SGMA (Water Code section 10720, et seq.), the City will consider all beneficial uses of groundwater and the interests of users and managers.

The City will develop an open and inclusive process to implement the [RWR1]SGMA. Interested parties will have opportunities, both formal and informal, to provide input to the City throughout the process of developing, operating, and implementing the GSA and GSP. Such opportunities may include, but are not limited to, public comment periods required by SGMA (e.g., Water Code section 10728.4); opportunities for public comment during regular and special City Council meetings; and at other times to be determined and noticed pursuant to Water Code section 10727.8(a).

The above-referenced agencies, water providers, and other interested stakeholders will be contacted to determine how best to consider and protect their interests, and invited to participate in evaluating and defining roles and responsibilities during the GSP planning and implementation process.

This GSA formation notification along with GIS shape files are being sent electronically to Mark.Nordberg@water.ca.gov.

City of Marina - GSA Notification Letter Mr. Mark Nordberg April 13, 2018 Page 4

The undersigned, as the designated representative of the City of Marina, believes that this notification includes all applicable GSA notification requirements in Water Code Section 10723.8(a). If any additional information is required, please contact Public Works Director Brian McMinn at bmcminn@cityofmarina.org or (831) 84-1215.

Sincerely,

Layne Long

City Manager City of Marina

Attachments: Exhibit A: Map of City of Marina GSA Boundary

Exhibit B: Resolution 2018-25 forming GSA

Exhibit C: Proof of Publication and Notice of Public Hearing

Data Sources: Data Sources:

DWR Groundwater Information Center Interactive Map Application:

https://gis.water.ce.gov/app/gicima/

County of Monterey GIS Mapping & Data: http://www.co.monterey.ca.us/government/

departments-t-zAnformation-technology/gis-mapping-data FIGURE 1 Salinas Valley 180/400 Foot Aquifer Monterey Subbasin City of Marina Groundwater Sustainability Agency City of Marina GSA (overlaps existing SVBGSA) Existing Salinas Valley Basin GSA MÄRINA Existing Marina Coast Water District GSA 3,000 Bulletin 118 Groundwater Basin Boundary 1 inch = 3,000 feet City of Marina Limits Map Date: April 2018

## APPENDIX 1.D – RESOLUTION NO. 2018-25: MARINA CITY COUNCIL ELECTING TO BECOME A GSA

#### **RESOLUTION NO. 2018-25**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARINA FORMING A GROUNDWATER SUSTAINABILITY AGENCY (GSA) AND UNDERTAKE SUSTAINABLE GROUNDWATER MANAGEMENT WITHIN THE PORTION OF THE SALINAS VALLEY GROUNDWATER BASIN 180/400 FOOT AQUIFER SUBBASIN WITH THE CITY AND OUTSIDE THE MARINA COAST WATER DISTRICT SERVICE AREA, AND AUTHORIZE FILING NOTICE OF GSA FORMATION WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR) PURSUANT TO WATER CODE SECTION 10723.8(a), AND AUTHORIZE AND DIRECT THE CITY MANAGER OR HIS DESIGNEE TO SUBMIT NOTICE OF ADOPTION OF THIS RESOLUTION IN ADDITION TO ALL INFORMATION REQUIRED BY THE SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA), INCLUDING BUT NOT LIMITED TO, ALL INFORMATION REQUIRED BY WATER CODE SECTION 10723.4 AND A LIST OF INTERESTED PARTIES AS DESCRIBED IN WATER CODE SECTION 10723.8(A)(4), AND AUTHORIZE THE CITY MANAGER OR HIS DESIGNEE TO TAKE SUCH OTHER FURTHER ACTIONS AS MAY BE NECESSARY TO EFFECTUATE THE PURPOSE OF THIS RESOLUTION, AND FIND THAT THE ADOPTION OF THE RESOLUTION IS EXEMPT FROM THE REQUIREMENTS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (PUBLIC RESOURCE CODE SECTION 21000 ET SEQ.) (CEQA) PURSUANT TO SECTION 15061(B)(3) OF THE CEQA GUIDELINES.

WHEREAS, the Sustainable Groundwater Management Act of 2014, Water Code Sections 10720 – 10736.6 ("SGMA") was signed into law on September 16, 2014; and

WHEREAS, SGMA requires that each California groundwater subbasin be managed by a single Groundwater Sustainability Agency ("GSA") or by a combination of GSAs and that such management be implemented pursuant to an approved Groundwater Sustainability Plan, or multiple coordinated GSP's, as the case may be; and

WHEREAS, the legislative intent of the Sustainable Groundwater Management Act is to provide for sustainable management of groundwater subbasins, to enhance local management of groundwater, to establish minimum standards for sustainable groundwater management, and to provide local groundwater agencies with the authority and the technical and financial assistance necessary to sustainably manage groundwater; and

WHEREAS, Water Code Section 10723(a) authorizes any local agency with a service area overlying a groundwater subbasin or portion thereof to establish itself as the GSA for its service area; and

WHEREAS, Water Code Section 10721(j) defines a GSA as one or more local agencies that implement the provisions of SGMA; and

WHEREAS, the City's jurisdictional boundaries overlie a portion of the 180/400 Foot Aquifer Subbasin of the Salinas Valley Groundwater Basin; and

WHEREAS, City staff is proposing that the City become the GSA whose boundaries would encompass Monterey County Assessor Parcel Numbers (APN) 203-011-001; 203-011-019; 203-011-020; and 203-011-011 (See Exhibit "A"); and

WHEREAS, prior to adopting a resolution of intent to establish the City as a GSA, Water Code Section 10723 requires a local agency to hold a public hearing, after publication of notice pursuant to Government Code Section 6066, on whether or not to adopt a resolution to establish a GSA; and

Resolution No. 2018-25 Page Two

WHEREAS, the notice for the public hearing was published on Thursday, March 1, 2018 and Thursday, March 8, 2018; and

WHEREAS, said public hearing was held on March 20, 2018; and

WHEREAS, the City is committed to the sustainable management of groundwater within the Salinas Valley Ground Water Basin 180/400 Foot Aquifer Subbasin and intends to coordinate with the other GSAs and affected parties and consider the interests of all beneficial users and uses of groundwater within the 180/400 Foot Aquifer Subbasin.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Marina does hereby:

- Form a Groundwater Sustainability Agency (GSA) and undertake sustainable groundwater management within the portion of the Salinas Valley Ground Water Basin 180/400 Foot Aquifer Subbasin within the City and outside of the Marina Coast Water District service area. A map of the GSA Boundary is attached hereto as Exhibit A and incorporated herein.
- 2. Authorize filing notice of GSA formation with the California Department of Water Resources (DWR) pursuant to Water Code Section 10723.8(a).
- 3. Authorize and direct the City Manager or his designee to submit notice of adoption of this Resolution in addition to all information required by the SGMA, including but not limited to, all information required by Water Code Section 10723.8 to the California Department of Water Resources, and to support the development and maintenance of an interested persons list as described in Water Code Section 10723.4 and a list of interested parties as described in Water Code Section 10723.8(a)(4).
- 4. Authorize the City Manager or his designee to take such other and further actions as may be necessary to effectuate the purposes of this Resolution.
- 5. Find that that the adoption of this Resolution is exempt from the requirements of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) (CEQA) pursuant to Section 15061(b)(3) of the CEQA guidelines.

PASSED AND ADOPTED by the City Council of the City of Marina at a regular meeting duly held on the 20th day of March 2018, by the following vote:

AYES, COUNCIL MEMBERS: Amadeo, Morton, O'Connell, Brown, Delgado

NOES, COUNCIL MEMBERS: None ABSENT, COUNCIL MEMBERS: None ABSTAIN, COUNCIL MEMBERS: None

Bruce C. Delgado, Mayor

ATTEST:

Anita Sharp, Deputy City Clerk

## APPENDIX 1.E – PROOF OF PUBLICATION OF HEARING NOTICE



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MARINA - CITY CLERK / CITY MANAGER Account No. 2140479 211 HILLCREST AVE. MARINA, CA 93933

Legal No. 0006114411 Notice of Public Hearing - COM

Ordered by: Anita Shepherd-Sharp

### PROOF OF PUBLICATION

STATE OF CALIFORNIA County of Monterey

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of The Monterey Herald, a newspaper of general circulation, printed and published daily and Sunday in the City of Monterey, County of Monterey, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Monterey, State of California; that the notice, of which the annexed is a printed copy (set in type not smaller than 6 point), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

03/01/18, 03/08/18

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Executed on 03/08/2018 at Monterey, California.

Darielle Kandake

Signature

This space is reserved for the County Clerk's Filing Stamp

#### NOTICE OF PUBLIC HEARING City of Marina

Notice is hereby given that City Council of the City of Marina will hold a public hearing regarding the adoption of a Resolution of Intention to form a Groundwater Sustainability Agen-cy (GSA) as outlined in the California Water Code, Part 2.74, Sustainable Groundwater Management Act, Section 10723. The proposed GSA boundaries would encom-Monterey pass County Assessor Parcel Numbers (APN) 203-011-001; 203-011-019; 203-011-020; and portions of APN 203-011-023; 175-011-046; 175-011-031; and 203-011-011. The public hearing is in-tended to review, provide explanation of, and allow for public input on the formation of one GSA by the City of Marina within the proposed bounda-

The public hearing for the proposed formation of the GSA shall be held at the following date, time, and place:

Tuesday, March 20, 2018, at 6:30 pm Marina City Council Chambers, 211 Hillcrest Avenue, Marina, CA 93933

If you need special assistance to participate in this public hearing, please contact the City of Marina at (831) 884-1278. Notification 48 hours prior to the hearing will enable the City of Marina to make reasonable arrangements to ensure accessibility to this public hearing. [28 CFR 35.102-35.104 ADA Title II]

FOR ADDITIONAL IN-FORMATION CON-TACT: Layne Long, City Manager City of Marina 211 Hillcrest Ave., Marina, CA 93933 (831) 884-1278 or ilon g@cityofmarina.org

Publication date: March 1, 2018 and March 8, 2018