



Local Groundwater Assistance Grant Application Work Plan

ATTACHMENT 5: WORK PLAN

The following work plan is consistent with and supports the budget and schedule for the project. The level of detail is sufficient to function as the scope of work and allows reviewers to understand the level of effort of work being performed.

Scope of proposed project including (as appropriate) maps of agency area and area of proposed tasks;

The proposed project is described in detail in the following *Work Plan*. The *Work Plan* includes relevant maps to clearly illustrate agency areas and the project area.

Specific purpose, goals, and objectives of the proposed project related to improving groundwater management and implementing the GWMP and/or where applicable the IRWM Plan;

The development of the GWMP will provide a significant opportunity for key stakeholders, local water purveyors, private landowners, interested parties, and applicable regulatory agencies to collectively accomplish preparation of a GWMP for the Foothill and Santa Barbara basins that provides for effective management and sustainability of the basins. A number of goals and objectives have been identified and are listed in the *Work Plan* below.

The City of Santa Barbara has been actively involved in the Santa Barbara County IRWMP program since 2005 and has been an essential member of the Cooperating Partners (RWMPG). The City benefitted from Proposition 50 funds for their Lower Mission Creek project, which was a collaboration between the City and the County of Santa Barbara, Flood Control Division. The City staff participates on the Steering Committee and in various Technical Advisory Committees that are presently involved in the Update to the 2007 IRWMP. The City is also intimately involved in an IRWMP focus study entitled the *South Coast Recycled Water Feasibility Study*, which will be incorporated into the updated IRWMP. The work completed to date as part of the Update to the IRWMP will synergize portions of the GWMP and assist in defining future projects that not only benefit the health of the City's GWMPs, but potentially benefit adjacent areas.

Work items to be performed under each task of the proposed tasks (consistent with the budget and schedule);

The work items to be performed under each task to develop a GWMP are clearly outlined and discussed in the following *Work Plan*. Each task and estimated level of effort and timing are consistent with the



Local Groundwater Assistance Grant Application Work Plan

budget and schedule included in *Attachment 6, Budget* and *Attachment 7, Schedule*, respectively. The budget assumes that a qualified consulting firm familiar with the hydrogeologic setting of the Basins would complete most of the technical work. The rates used to estimate the project budget are based on competitive consultant rates and schedule used for recently completed GWMP prepared in other agencies. The budget and schedule include City staff participation and coordination with project participants, stakeholders, and DWR. City staff will also provide administrative support to complete the public participation and administrative requirements of the project.

Present a sound strategy for evaluating progress and performance at each step of the proposed project;

Development of the GWMP will include measures that will result in high-quality information and data that will produce an optimum GWMP. A qualified consultant will be used to complete the scope of work, which includes planned quality assurance checks of the technical work at various stages of the project. Multiple levels of QA/QC will be included throughout the preparation of the technical work products and development of the GWMP. These levels of QA/QC are explained in greater detail herein. The specific quality assurance activities are listed in *Attachment 8, Quality Assurance*. In addition, as noted in Task 8.0 in the *Work Plan*, an independent technical review by members of the consulting team experienced in groundwater management, but not directly involved in the development of the GWMP, will provide an internal review to ensure the GWMP meets the expectations of the local project participants and stakeholders, and provides a vision and framework for the implementation of groundwater management in the Basins. Given the City's long-standing relationship and ongoing studies with the USGS, it is likely that USGS staff familiar with the City's groundwater Basins will be recruited to assist in an independent technical review.

Project deliverables for assessing progress and accomplishments, which include quarterly progress and final reports.

The City will continually monitor the project performance to ensure successful completion of both individual activities and the overall project. Overall project performance will be conveyed to DWR in quarterly progress reports. As identified in Task 12.0 of the *Work Plan*, the overall project performance will be assessed through the preparation and submittal of 4 progress reports and one final progress report during the 18-month project schedule.

If access to private property is needed, provide assurance that access can be granted.

The City currently maintains a series of monitoring wells, in addition to its production wells, that will allow for full coverage of the Basins for study and sampling. Therefore, access to private property is not needed. To the extent that other pumpers within the Basins would like to participate, investigation and sampling of these wells will be incorporated.



Local Groundwater Assistance Grant Application Work Plan

Explain the plan for environmental compliance and permitting including a discussion of the following items: a description of the plan, proposed efforts, and approach to environmental compliance, including addressing any CEQA obligations in connection with the proposal; a listing of environmental related permits or entitlements that are needed for the project; and any other applicable permits that will be required. Briefly describe the process and schedule for securing each permit/approval. Discuss necessary local drilling permits and the submittal of Well Completion Reports to DWR. Describe the proposed process for securing each environmental permit and any other regulatory agency approval.

The proposed project is for the development of a GWMP, thus, compliance and permitting are not applicable. As such, a CEQA Notice of Exemption will be prepared. Upon implementation of projects and programs pursuant to the GWMP, applicable environmental compliance and permitting may be required and would be addressed at that time.

SCOPE OF PROJECT (PLAN)

The Scope of the project (Plan) includes development of an optimum Foothill and Santa Barbara Basins Groundwater Management Plan (GWMP). The GWMP will be developed within a 18-month timeframe. All of the activities for the development of the GWMP will coincide with the planned tasks, schedule and budget. GWMP development will be managed by a City of Santa Barbara (City) Project Manager, Theresa Lancy, in a cooperative approach with the Foothill and Santa Barbara Basins Development Team and Advisory Group to ensure all issues relating to the Basins are addressed.

Development of the GWMP will include the following tasks: (1) Administrative and Legal Requirements of Plan Process; (2) Identification of GWMP Development Team; (3) Outreach, Education and Public Involvement; (4) Data Collection; (5) Basin Analyses and Studies for Plan Development; (6) Projects and Programs to Meet Goals and Objectives of the Plan; (7) Prepare Draft GWMP; (8) Quality Assurance/Quality Control; (9) Prepare Final GWMP; (10) Public Hearing/Adoption of GWMP; (11) Final GWMP to DWR; and (12) Submit Quarterly and Annual Progress Reports to DWR.

Project Maps

Project maps showing the Project Vicinity (Figure 1), City Water Service Boundaries (Figure 2), and the Foothill and Santa Barbara Groundwater Basins and Monitoring Wells (Figure 3) are presented in the following pages.

GOALS AND OBJECTIVES

The Foothill and Santa Barbara Basins GWMP will accomplish goals and objectives that are specific to the characteristics of the Basins and the community it serves. The development of the GWMP will provide significant opportunities from key people of the community and regulatory agencies to collectively accomplish a GWMP that will optimize the Basin management in a practical manner. The



Local Groundwater Assistance Grant Application Work Plan

development of the GWMP will be a significant step in collaboratively and sustainably managing a shared resource. In order to accomplish the successful development of the Foothill and Santa Barbara Basins GWMP, the following goals and objectives have been established:

Goals

- The City has been diligent in protecting its groundwater supplies and wishes to formalize this role via adoption of a GWMP.
- The City would like to take this opportunity to include extensive outreach to all pumpers within the basin to create a plan that allows users to collectively and sustainably manage this resource.
- Reserve groundwater Basins for source of supply during periods of drought when surface supplies are reduced.
- Address water quality (nitrate) and quantity (declining water levels) issues that are emerging in the Foothill Basin.
- Address water quality (chloride) and quantity (declining water levels), and resultant seawater intrusion issues in the Santa Barbara Basins.
- Educate Basin pumpers, as well as agricultural and residential communities.

Objectives

- Develop an optimum GWMP for the Basins.
- Understand the dynamic sustainability of the groundwater system.
- Develop tools that will continually update information regarding the City's sustainable groundwater supply.
- Identify optimal water-resource management strategies.
- Estimate the current (2012) sustainable yield of the Basins.
- Estimate the future sustainable yield of the groundwater basins.
- Develop empirical methods to evaluate the current state of the groundwater basins.
- Identify specific programs and projects to enhance optimum Basins production and water quality and meet the goals and objectives of the GWMP.
- Develop optimum strategies for future construction of facilities including wells, pipelines, treatment systems and infiltration projects to holistically manage all phases of the urban water cycle.
- Develop programs to educate the community on Basins issues including overdraft and poor water quality.
- Develop programs and projects to reduce overdraft and manage water quality issues.
- Evaluate potential nitrate sources including septic recharge and agricultural irrigation infiltration by conducting a nitrate-nitrogen, nitrate-oxygen isotope study.
- Review existing programs and make recommendations to address septic system use, maintenance and operation.
- Review existing Basins monitoring program and make recommendations to improve Basin monitoring.



Local Groundwater Assistance Grant Application Work Plan

- Develop alternative methods for increased recharge (e.g. stormwater infiltration projects) and conjunctive use.
- Review existing programs and make recommendations to address emergency or critical water shortage situations.
- Develop programs for community involvement and outreach.
- Develop programs to educate the community on continued water conservation and stewardship of the Basins.

WORK ITEMS

The Groundwater Management Plan Team will implement the following tasks in development of the Foothill and Santa Barbara I and III Basins Groundwater Management Plan:

Task 1.0 Administrative and Legal Requirements of Plan Process

- 1.1 Notice and conduct a public hearing in accordance with California Water Code (CWC) Section 10753.2. The City of Santa Barbara will hold a hearing on whether or not to adopt a resolution of intention to draft the Foothill and Santa Barbara I and III Basins GWMP for the purpose of implementing the Plan and establishing a Groundwater Management Program. Section 10753.4 requires a local agency to prepare the GWMP within 2 years of the date of the adoption of the resolution of intention and requires the local agency to publish a specified notice, pursuant to Section 6066 of the Government Code, before each of these hearings describing the manner in which interested parties would be allowed to participate in the development of that plan.
- 1.2 Adoption of resolution of intention by the Santa Barbara City Council to draft the GWMP. Upon adoption of the resolution, it shall be noticed to the public in the same manner that the notice of public hearing was published above. Upon written request, the City will provide any interested person a copy of the resolution of intention.
- 1.3 CWC details required, voluntary, and suggested components of development and implementation of a GWMP. The following table presents the components of the GWMP as expounded in updated CWC – Part 2.75: Groundwater Management [Sections 10750.-10755.4.], as well as AB 3030, SB 1938, AB 359 and Bulletin 118. Brief explanation is provided as to how these items will be addressed in GWMP development and implementation.



Local Groundwater Assistance Grant Application Work Plan

Table 1. Required, Voluntary and Suggested Components of a GWMP

Groundwater Management Activity	Plan to Address in GWMP
<i>CWC Section 10753.7, Required Components</i>	
1. Basin Management Objectives (BMOs)	BMOs will be developed in the GWMP for, but not limited to, water levels, nitrate, and chloride. Quantitative thresholds will be set for each BMO to ensure the beneficial uses of the Basins are preserved and undesirable effects (e.g. seawater intrusion) are mitigated. Task 6
2. Agency Cooperation	City of Santa Barbara will cooperate with the County, State and Federal agencies to develop the GWMP.
3. Map of Groundwater Basins as defined by bulletin 118	GIS shape files are provided for Foothill and Santa Barbara Basins. Santa Barbara Basin is subdivided by the City into operable units.
4. Recharge map with description of recharge areas as required by AB 359 (effective 01/01/13)	To be developed as component of GWMP. Task 6
5. Monitoring Protocols	The City has volunteered to monitor and report groundwater levels under the California Statewide Groundwater Elevation Monitoring (CASGEM) program. In addition, the City monitors water quality and USGS monitors surface flows. This existing monitoring program will be reviewed to determine its adequacy in meeting the BMOs of the Basins. Final monitoring protocols will be formally adopted under the GWMP. Task 6
6. Agencies located outside Basins defined in bulletin 118	Not Applicable
<i>CWC Section 10753.8, Voluntary Components</i>	
1. The control of saline water intrusion.	Multiple Objective Optimization Model (MOOM) by USGS is available for use in testing water supply scenarios, seawater intrusion impacts, and optimal well placement. In 2010, the City initiated a 3-year project with USGS to update MOOM and add 3-dimensional water quality component for more accurate assessment of seawater intrusion. GWMP will evaluate optimum pumping scenarios, conjunctive use and injection wells to control seawater intrusion. Tasks 5 and 6
2. Identification and management of wellhead protection areas and recharge areas.	Current City watershed management practices will be incorporated into the GWMP. A recharge map delineating areas as required by AB 359 will be produced. Task 6
3. Regulation of the migration of contaminated groundwater.	Stable isotope ratios of nitrogen and oxygen of dissolved nitrate study will be conducted in the Foothill Basin to identify potential source(s) of contamination including septic recharge and infiltration of agricultural irrigation waters. Task 5
4. The administration of a well abandonment and well destruction program.	The City administers well destruction permits under the Building and Safety Division. All well destructions require a permit and inspection.



Local Groundwater Assistance Grant Application
Work Plan

Table 1. Required, Voluntary and Suggested Components of a GWMP

Groundwater Management Activity	Plan to Address in GWMP
5. Mitigation of conditions of overdraft.	The current and future safe yields of the Basins will be evaluated and BMOs developed for water levels. Tasks 5 and 6
6. Replenishment of groundwater extracted by water producers.	GWMP will evaluate conjunctive use opportunities and constraints and potential to replenish Basins with injection wells or by other means. Task 6
7. Monitoring of groundwater levels and storage.	The City has volunteered to monitor and report groundwater levels under the CASGEM program. This program will be reviewed to determine adequacy in meeting BMOs. Final water level and storage monitoring protocols will be included in the GWMP. Task 5 and 6
8. Facilitating conjunctive use operations	The City's long term water supply goal is to increase conjunctive use opportunities by using the Basins as a storage bank during wet periods for use during dry periods. Conjunctive use opportunities and constraints will be explored during development of the GWMP. Task 6
9. Identification of well construction policies.	Well construction policies are regulated by the City Title 14, County Chapter 34 and California Well Standards Bulletins 74-81 and 74-90. Well construction policies will be reviewed to determine adequacy in meeting goals and objectives of GWMP. Task 5
10. The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling, and extraction projects.	GWMP development shall consider all project types in the opportunities and constrains analysis. Task 3 A refined list of projects will be completed in Task 6 .
11. The development of relationships with state and federal regulatory agencies.	Coordinate with the County, RWQCB, DTSC, DWR, EPA.
12. The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.	Existing land use overlying the Basins and Basins' Recharge areas will be evaluated to assess activities which create a reasonable risk of groundwater contamination. This approach will specifically be used when assessing potential sources of nitrate contamination in the Foothill Basin. Task 5
DWR Suggested Components from Bulletin 118, Chapter 3 and Appendix C	
1. Manage with guidance of Advisory Committee.	An Advisory Committee is proposed for this GWMP preparation.
2. Describe the area to be managed under the plan.	Foothill and Santa Barbara Basins as defined by Bulletin 118.
3. Create link between basin management objectives and goals and the actions of the plan.	BMOs will clearly link to goals and actions of the GWMP of collectively and sustainably managing the resource; reserve Basins for source of supply during periods of drought; address water quality and quantity issues; and educate Basin pumpers, and agricultural and residential communities.



Local Groundwater Assistance Grant Application Work Plan

Table 1. Required, Voluntary and Suggested Components of a GWMP

Groundwater Management Activity	Plan to Address in GWMP
4. Describe the plan monitoring program.	GWMP monitoring program to be developed in Task 6 .
5. Describe the Integrated Water Management Plan efforts.	The City of Santa Barbara has been actively involved in the Santa Barbara County IRWMP program since 2005 and has been an essential member of the Cooperating Partners (RWMG). The City benefitted from Proposition 50 funds for their Lower Mission Creek project, which was a collaboration between the City and the County of Santa Barbara, Flood Control Division. The City staff participates on the Steering Committee and in various Technical Advisory Committees that are presently involved in the Update to the 2007 IRWMP. The City is also intimately involved in an IRWMP focus study entitled the <i>South Coast Recycled Water Feasibility Study</i> , which will be incorporated into the updated IRWMP. The work completed to date as part of the Update to the IRWMP will synergize portions of the GWMP and assist in defining future projects that not only benefit the health of the City's GWMPs, but potentially benefit adjacent areas.
6. Report on Implementation of the Plan.	To be addressed in annual Basins Report.
7. Evaluate the plan periodically.	GWMP to be evaluated at least annually.

Task 2.0 Groundwater Management Plan Development Team

- 2.1 Establish a GWMP Development Team to include City Staff, consultant engineers and hydrogeologists, and other appropriate experts to develop an optimum GWMP. The City will ensure the Team members are qualified, certified and maintain professional registrations. At a minimum, the team will include a Certified Hydrogeologist (CHG) and a Professional Engineer (PE) registered in the state of California and in good standing with the Board for Engineers, Land Surveyors and Geologists.

- 2.1 Conduct an initial meeting with the GWMP Development Team to do the following: (1) reconfirm goals and objectives outlined in this Scope of Project; (2) adopt measures to address required, voluntary, and suggested elements in Table 1 above; (3) adopt schedule for GWMP development; (4) verify needed analysis and studies for the GWMP; (5) specify GWMP assignments to Team members; (6) detail data requirements to accomplish GWMP; (7) confirm schedule for reoccurring Development Team meetings; (8) other identified items not on agenda.

- 2.3 Conduct 12 additional GWMP Development Team Meetings as scheduled to discuss status of GWMP development, status of results of research and studies, identify any data gaps, Advisory Group involvement, and review of community outreach and education activities.



Local Groundwater Assistance Grant Application Work Plan

Task 3.0 Outreach, Education and Community Involvement

- 3.1 Organize the Basins Advisory Group comprised of Stakeholders, Community members and other Interested Parties. Identify goals and objectives of the Advisory Group, establish meeting dates throughout the GWMP development period, and establish/adopt guidelines for conduct of Advisory Group meetings.
- 3.2 Conduct at least 5 meetings of the Advisory Group to include education of water resources within the City, region and state; education of Basin problems (e.g. overdraft and historical seawater intrusion), concerns (e.g. over pumping), and benefits (e.g. local drought resistant resource); conduct informational tours as appropriate; and compile meeting notes and submit to GWMP Development Team for review and consideration.
- 3.3 Conduct community outreach and education on GWMP development through viable methods, including news releases, fact sheets, City website with posted documents for review, City News In Brief email E-newsletters, brochures, community events, service and community group presentations, school curriculum, and any other methods determined timely and appropriate. In addition, the City will provide targeted outreach to any and all known or potential basin users. The City will make available to the public a written statement describing the manner in which interested parties would be allowed to participate in development of the GWMP, for those not already participating in the Advisory Group. Details of this process, including public hearings, planning meetings, draft GWMP review, Water Commission and City Council meetings, will be utilized to ensure community input and participation and made available to the public via the City website.

The City proposes to increase participation in developing the GWMP by conducting targeted and specific outreach to incorporate the needs, goals, priorities, and projects for all Stakeholders and Interested Parties. The City proposes to coordinate a series of three workshops to promote the active and sustained participation of representatives from Interested Parties in GWMP formulation. Focus group meetings may also be included in this step. Embedded within this series of workshops will be the technical issues related to Basins water quality, quantity, and Basin monitoring programs. The purpose of the workshops is to coordinate outreach efforts in a manner that is appropriate for Interested Party participants who will be engaged in the planning process. The meetings are intended to provide information and tools to these Stakeholders that will allow them to develop an understanding of the GWMP process and address their specific questions.

Workshop 1: Interested Parties Workshop 1 will be a publicly noticed meeting that gives specific information about the GWMP process. The visioning workshop will provide both an educational and strategic purpose by giving Interested Parties the information they need to incorporate their questions and ideas into the overall planning framework, and by providing an open forum for the



Local Groundwater Assistance Grant Application Work Plan

discussion of project concepts. This includes discussion of water management goals and objectives, planned projects, future potential projects, synergies and nexus of certain projects, as well as impediments to implementing these goals and projects.

The visioning workshop will include an “Opportunities and Constraints Analysis” that defines:

- Goals and objectives, water management strategies, planned projects, future projects, and key issues and challenges.
- Opportunities for collaboration on the GWMP.

Meeting attendees will be asked to identify the key opportunities and constraints. Participants will be able to discuss any topic they feel is relevant and important to the planning process.

Workshop 2: Interested Parties Workshop 2 will summarize and present the outcomes of the opportunities and constraints analysis to a larger public group and allow these community representatives to determine the priorities and next steps that will guide GWMP development.

Workshop 3: Building upon the priorities set in Workshop 2, Workshop 3 will chart a path forward for streamlined and enhanced communication, community capacity building and concrete GWMP development, strategy implementation, and potentially additional studies.

3.4 Provide information on community involvement for input into the Draft GWMP. The City Project Manager and Outreach Coordinator will document outcomes of three Workshops and prepare information for consideration of Development Team.

Task 4.0 Data Collection

4.1 Conduct data collection from all available sources including collaboration with ongoing USGS study of the Basins. Ensure data collection corresponds to the data requirements list developed by GWMP Development Team. Identify any data gaps and make recommendations to the Development Team on how to fill data gaps, if necessary.

Task 5.0 Basin Analyses and Studies for Plan Development

5.1 Review all available data, including reports, plans, studies, and papers on Foothill and Santa Barbara I and III Basins, Basins conditions, existing wells, historical seawater intrusion, overdraft status, available pumping records, estimate of additional undocumented pumping, water level and water quality monitoring, and other pertinent information for GWMP development.

5.2 Conduct analyses and studies to assist in optimum GWMP development. This shall include and consider, but not be limited to the following:

- Conduct water balance and net zero draft analyses to determine the safe yield of the Basins.



Local Groundwater Assistance Grant Application Work Plan

- Conduct hydrologic study that characterizes flow conditions in the watersheds including defining potential recharge areas.
- Review land use plans to assess activities which create a reasonable risk of groundwater contamination.
- Conduct geologic analyses of the Basins.
- Identify existing and potential areas of natural Basins replenishment
- Evaluate water rights issues in the Basins.
- Conduct a water quality assessment on current conditions and trends including investigations on salt and nutrient loading.
- Conduct stable isotope ratios of nitrogen and oxygen of dissolved nitrate study including sampling for stable isotope ratios of dissolved inorganic carbon (DIC) to identify potential source(s) of nitrate loading. Assess land use to identify activities which create a reasonable risk of groundwater contamination.
- Evaluate the pumping patterns for optimum Basins results.
- Identify existing and projected land use.
- Evaluate the potential and benefits of conjunctive use in the Basins.
- Conduct environmental screening for opportunities and constraints including fatal flaws assessment.
- Review well construction policies in place and determine if adequate to meet goals and objectives of GWMP.
- Other analyses and studies critical for the development of Basins management alternatives.

Task 6.0 Projects and Programs to Meet Goals and Objectives of Plan

- 6.1 Review and consider all Basin analyses and studies to develop an optimum GWMP.
- 6.2 Identify and develop specific programs and projects to be included in the GWMP. Develop BMOs for, but not limited to, water levels, nitrate, and chloride. Quantitative thresholds will be set for BMOs to ensure the beneficial uses of the Basins are preserved and undesirable effects (e.g. seawater intrusion) are mitigated. Prepare a recharge map with description of recharge areas as required by AB 359. Develop potential conjunctive use opportunities and constraints for the Basins. Identify Basin replenishment opportunities and constraints including use of injection wells to control seawater intrusion. Develop potential project list including but not limited to, groundwater contamination cleanup, recharge, storage, conservation, water recycling, and extraction projects.

Task 7.0 Prepare and Draft Groundwater Management Plan

- 7.1 Prepare a Draft GWMP utilizing the results from the Basin analyses and studies, Advisory Group recommendations, and information from the GWMP Development Team. The GWMP will identify activities for the benefit of the Foothill, and Santa Barbara I and III Basins.



Local Groundwater Assistance Grant Application Work Plan

- 7.2 Circulate the Draft GWMP for review and comment to appropriate parties.
- 7.3 Receive and review comments to the Draft GWMP. Responses to comments will be provided only for comments not incorporated in the Final GWMP.

Task 8.0 Quality Assurance/Quality Control

- 8.1 QA/QC analyses and studies prepared for the development of the GWMP will be conducted by the consultants Principal Hydrogeologist and Senior Engineer in collaboration with City staff and the USGS.
- 8.2 QA/QC BMOs, recharge map and programs developed for the GWMP.
- 8.3 QA/QC Draft and Final GWMP.

Task 9.0 Prepare Final Groundwater Management Plan

- 9.1 Incorporate comments and changes as determined appropriate to refine the GWMP.
- 9.2 Prepare final GWMP for City Council adoption.

Task 10.0 Public Hearing/Adoption of Groundwater Management Plan

- 10.1 Notice and conduct a public hearing to receive comments on the Final Foothill and Santa Barbara Basins GWMP.
- 10.2 Adoption of the GWMP by resolution of the Santa Barbara City Council.

Task 11.0 Final Groundwater Management Plan to DWR

- 11.1 Submit Final GWMP to DWR within 2 years of the date of the adoption of the resolution of intention to prepare the GWMP.
- 11.2 Submit the Final Project Report that includes all data used in GWMP development, a detailed description and analysis of project results, and a summary of costs incurred and disposition of funds dispersed. The Final Project Report will be provided in hard copy and digital format.

Task 12.0 Reporting

- 12.1 Prepare and submit quarterly and annual progress reports to the DWR. Progress reports will include the following:
 - Brief summary of items contained in the body of the progress report.
 - Description of work performed during the reporting period including engineering analysis and studies, environmental issues and legal matters.
 - Major accomplishments including tasks completed and milestones met.
 - GWMP Development Team planning activities.
 - GWMP Advisory Group meeting notes and action items.
 - Community outreach materials, including press releases, brochures, presentations, meeting notes, sign-in sheets, etc.
 - Description of work to be performed during next reporting period.



Local Groundwater Assistance Grant Application Work Plan

- Issues and concerns that may affect the schedule or budget with a recommendation on how to correct the matter.
- Costs and hours incurred during the quarter by the City and identification of each consultant or contractor working on the GWMP.
- Comparison of the actual budget to the proposed budget and any change proposed in the budget.
- A discussion and project schedule demonstrating actual progress compared to the planned progress. Submission of revised schedule if necessary.



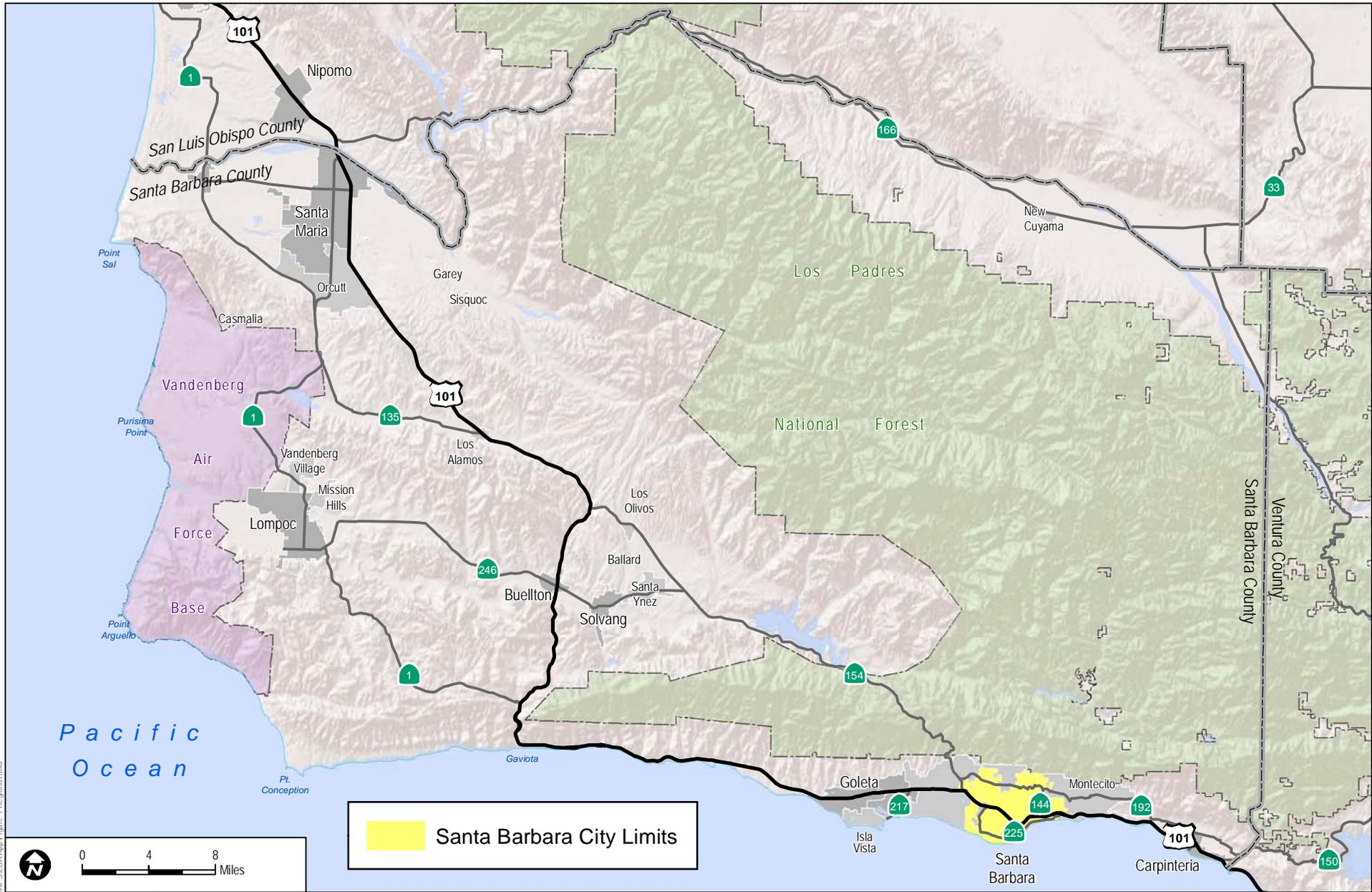
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Work Plan

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Local Groundwater Assistance Grant Application
Work Plan

Figure 1



 Santa Barbara City Limits

FIGURE 1

Project Vicinity Map

JULY 2012

City of Santa Barbara Local Groundwater Assistance Grant Application

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Figure 2



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Figure 2 – Water Service Boundaries



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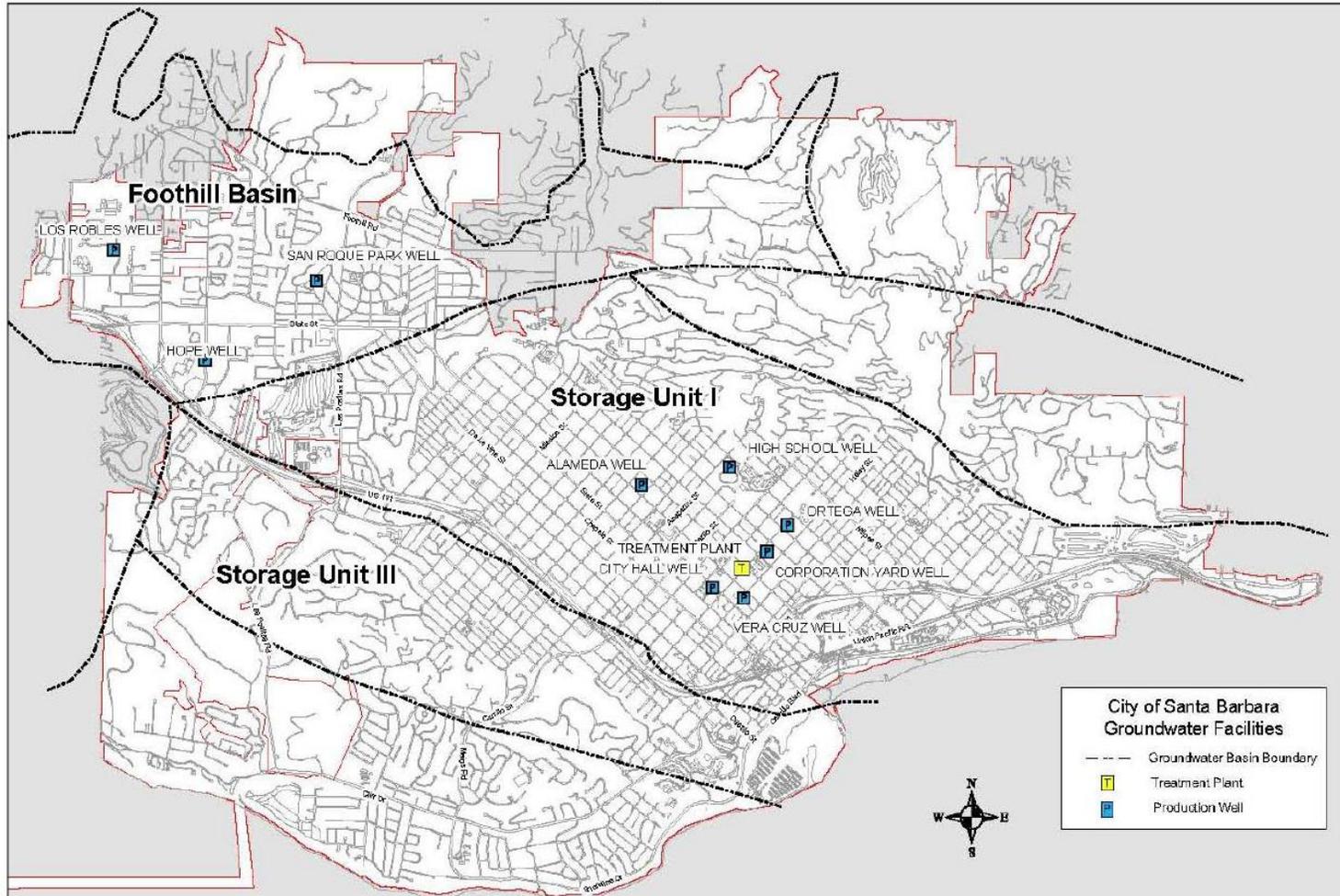
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Figure 3



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Figure 3 – Groundwater Basins and Monitoring Wells



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