LOS ANGELES
DEPARTMENT OF WATER
AND POWER

# GROUNDWATER SYSTEM IMPROVEMENT STUDY (GSIS) TO IMPROVE CITY OF LOS ANGELES SAN FERNANDO VALLEY GROUNDWATER BASIN

# SAN FERNANDO BASIN WATER MONITORING WELL PROJECT

# COMMUNITY INVOLVEMENT PLAN

**MAY 2015**

# Section 1

## Introduction

### 1.0 Overview of the Community Involvement Plan

This Community Involvement Plan (CIP) and outreach efforts are to communicate to Los Angeles Department of Water and Power (LADWP) customers and the general public the importance of the San Fernando Valley Groundwater Basin and its impact on the future local water supply. The outreach is to also communicate the efforts that the LADWP are taking to ascertain the actual condition of the water supply and the efforts that are needed to clean up existing groundwater basin contamination.

The San Fernando Valley Groundwater Basin is an aquifer, which is a geological formation containing water. The geological formation can be made up of permeable rock, sand, or gravel from which groundwater can be extracted. LADWP has eight well major well fields containing 115 supply wells within the San Fernando Basin that provide drinking water to a large portion of the City of Los Angeles residents.

Currently, many of these wells are inactive due to the groundwater basin contamination. The contamination was likely caused by improper storage, handling, and disposal of hazardous chemicals by the aircraft manufacturing industry, as well as commercial and heavy industrial activities dating back to the 1940s. In order to determine the nature and extent of the pollution, 26 monitoring wells have been drilled. Water samples are collected from the monitoring wells to analyze the contamination in the underground water supply. The monitoring wells are for water testing only and are not used to supply water to LADWP customers.

The CIP has been prepared in accordance with state and federal guidelines including the National Contingency Plan (NCP) 40 C.F.R. part 300; the United States Environmental Protection Agency (USEPA) *Superfund Community Involvement Handbook (2005) and the* U.S. EPA *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (1988),* and the State Water Resources Control Board *Public Participation At Cleanup Sites (2005).* The CIP contains public information and outreach activities that enable LADWP to comply with the *California Department of Public Health Policy Memo 97-005.*

The purpose of the CIP is to involve and inform the monitoring well sites' neighbors of the monitoring well construction activities and objectives. This document was written in 2013 and has since been updated to include all of the construction, outreach efforts through May 2015. The CIP addresses keeping Los Angeles City Council Members and other officials well-informed; gaining community support by keeping the public informed and involved through presentations to key area organizations; producing public information materials that communicate clearly to the target communities, considering their history,

concerns, demographics and language needs; incorporation of project information into the LADWP website and creation of a library repository of groundwater study information; protocol for communications during emergencies; and outreach strategies to communicate with immediate impacted neighbors.

**Organization of the Community Involvement Plan**

**Section 1.0** – Describes the purpose of the CIP

**Section 2.0** – Contains brief site description and brief history of the contamination and shut down of some of LADWP extraction wells; includes a brief description of the remedial investigation update / feasibility study actions, and anticipated subsequent Superfund remedial actions

**Section 3.0** – Provides demographic information about the interested parties and affected community

**Section 4.0** – Describes significant community issues and concerns and includes a summary of outreach conducted to-date to prepare the CIP

**Section 5.0** – Description of the community involvement activities and communications strategy, messaging, and timing of the elements of the CIP

**Section 6.0** – Community Interview Questions and Interview Summaries

**Section 7.0** – Official Contact List

**Section 8.0** – Summary of Public Meetings and Public Information Materials (Fact sheets, FAQs, maps, other)

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# Section 2

## Background Information About the San Fernando Valley Groundwater Basin, History of Contamination, Superfund Remedial Process, and LADWP's San Fernando Basin Water Monitoring Well Project

### 2.0 Site Description and Impact of Contamination to LADWP's Groundwater Extraction Wells

The San Fernando Valley in the City of Los Angeles, in Los Angeles County contains one of the largest natural underground aquifers and has historically provided as much as 107,000 acre feet a year of potable water. The City of Los Angeles has the rights for the use and storage of water in this area. In the past, groundwater supplied as much as 30 percent of the City of Los Angeles' water supplies during drought years. While local groundwater has historically provided Los Angeles with a reliable water supply, existing groundwater contamination in the San Fernando Groundwater Basin has impacted LADWP's ability to fully utilize this valuable resource.

The primary contaminants of concern include trichloroethylene (TCE), perchloroethylene (PCE), nitrates, perchlorate, hexavalent chromium, and may include some of the emerging contaminants. Currently, over 70% of the LADWP's production wells in the San Fernando Valley are removed from service due to contamination issues. With the discovery of new contamination sites and the migration of existing contaminant plumes (Figures 1 & 2), it is expected that more of LADWP's production wells will be impacted, thereby forcing the LADWP to increase its dependency on imported water supplies. Due to many factors, the costs associated with the purchase of outside water have been increasing, stressing budgets and impacting customer rates.

LADWP is advocating strongly for the United States Environmental Protection Agency (EPA), Los Angeles Regional Water Quality Control Board (RWQCB), and the California Department of Toxic Substances Control (DTSC) to identify and hold responsible parties accountable for cleaning up the Basin. The LADWP is also pursuing a parallel track to explore other administrative or legal remedies available to expedite cleanup, including the pursuit of monetary compensation for water lost due to contamination and the resulting pumping limitations.

Recognizing the urgency and importance of this work, LADWP is working with the government and elected officials to expedite the San Fernando Basin groundwater cleanup. The LADWP will seek and hold polluters accountable and will seek their funding for the cleanup. In addition, LADWP will seek state and federal funding.

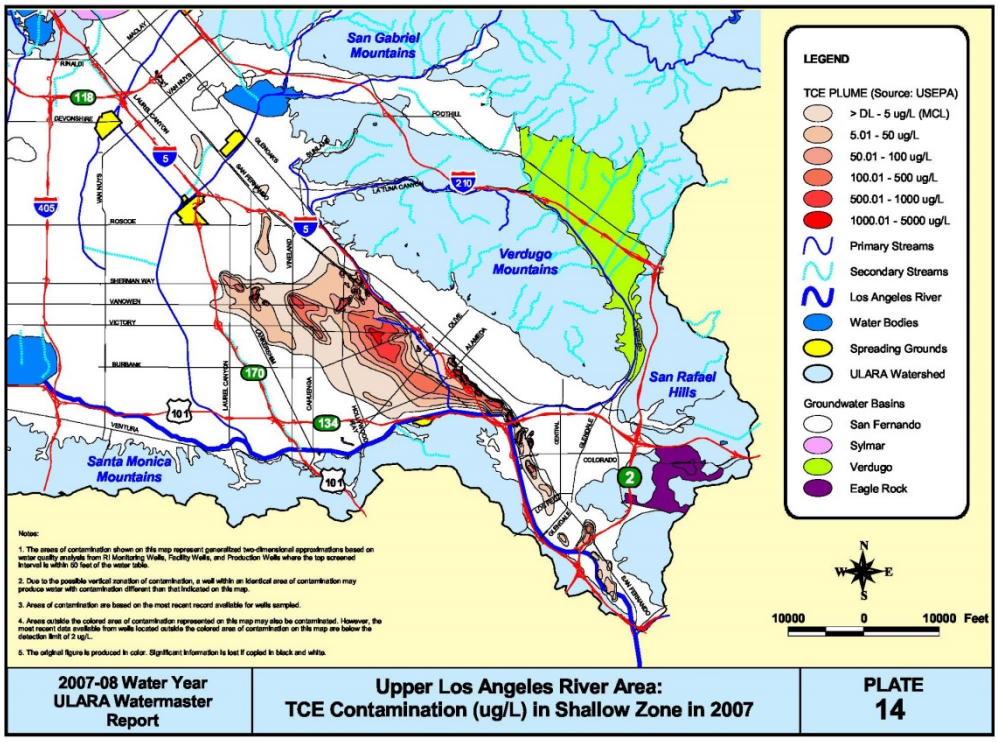



**Figure 1: TCE Contamination from 2007-08 ULARA Watermaster Report**

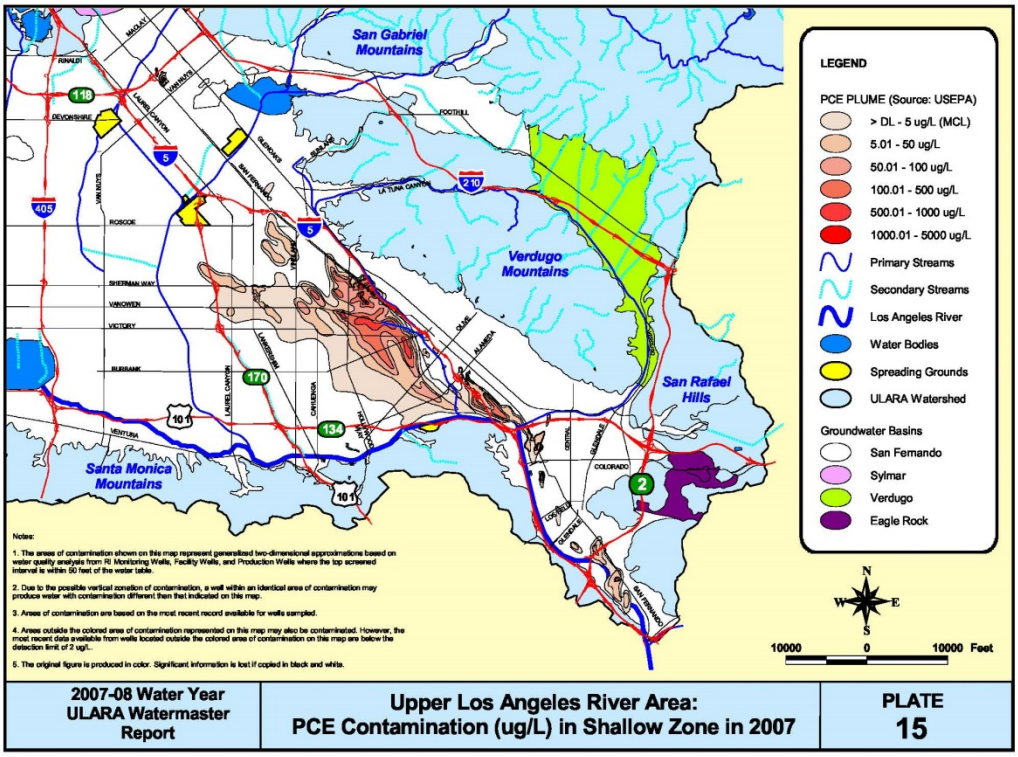



**Figure 2: PCE Contamination from 2007-08 ULARA Watermaster Report**

LADWP's goal of the *Groundwater System Improvement Study* is to address the contamination of the Basin and to regain the ability to fully utilize the City's groundwater supplies. Since the City is the permit holder for the groundwater utilization, LADWP is also working with California State Water Resources Control Board Division of Drinking Water (DDW, formerly the California Department of Public Health) to comply with its Policy Memo 97-005.

LADWP is taking the lead on community involvement related to this study. Since the study began, a substantial outreach and inter-agency coordination effort has occurred. This CIP provides details on outreach efforts that LADWP pursued, as appropriate, to inform and engage interested parties, including the immediate neighbors of 26 monitoring wells that were drilled within the community.

**Please refer to Figure 3 for an overview of the Groundwater System Improvement Study Area.**

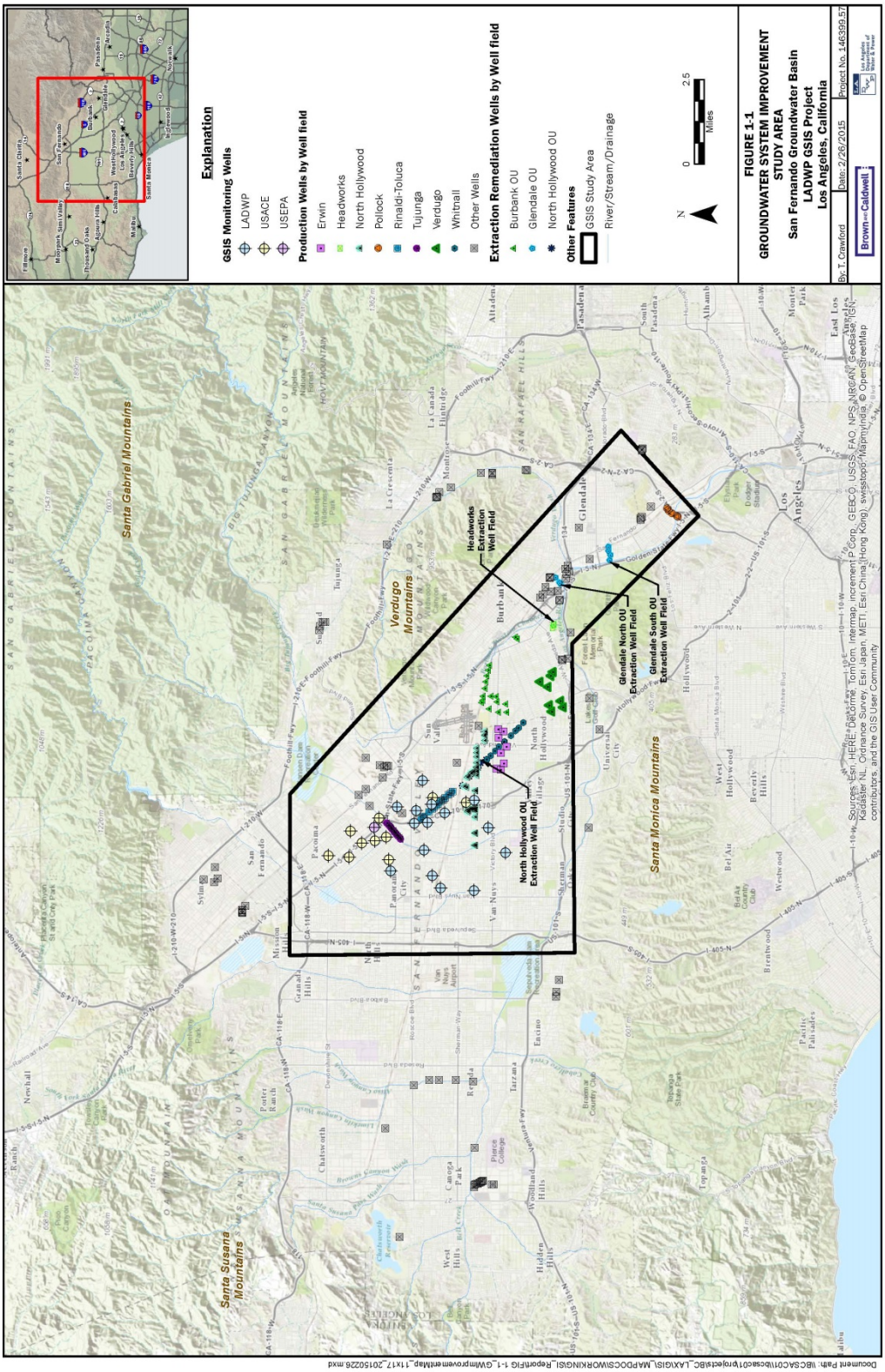



**Figure 3: Groundwater System Improvement Study Area**

## 2.1 Background on the Contamination and Superfund Program

It was during the Second World War and the construction and building boom of the 1940s that had a number of companies, in their manufacturing processes, produced pollutants that have found their way into our ground and groundwater system.

Los Angeles is not the only area in the country that has experienced this type of groundwater and soil contamination. In fact, the United States Federal Government recognized this as a national problem and developed the Comprehensive Environmental Response and Compensation and Liability Act, (CERCLA), which is commonly known as the "Superfund." The act was signed into legislation on December 11, 1980. The law created a tax on the chemical and petroleum industries and provided broad Federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. Over five years, $1.6 billion was collected and the tax went to a trust fund for cleaning up abandoned or uncontrolled hazardous waste sites. The tax continues to be collected for remediation steps.

The CERCLA (Superfund) legislation did the following:

Established prohibitions and requirements concerning closed and abandoned hazardous waste sites;
Provided for liability of persons responsible for releases of hazardous waste at these sites;
Established a trust fund to provide for clean-up when no responsible party could be identified

The law authorizes two kinds of response actions:

Short-term removals, where actions may be taken to address releases or threatened releases requiring prompt response.
Long-term remedial response actions, that permanently and significantly reduce the dangers associated with releases or threats of releases of hazardous substances that are serious, but not immediately life threatening.

The San Fernando Valley Groundwater Basin is a recognized Superfund Site and listed on the EPA's "National Priorities List."

The "Superfund" deals with a number of priority projects and there are many projects that take precedence over the San Fernando Valley Groundwater Basin clean-up needs.

State and federal funding is becoming limited, so the LADWP and the City need to step in and take a leadership role in monitoring the groundwater situation. The LADWP has been working in concert with the USEPA for many years in conjunction with projects to help improve the San Fernando Valley Groundwater Basin.

In 1983, LADWP developed a groundwater quality management plan which called for the deactivation of many supply wells owned by the City and expanded its groundwater sampling program to closely monitoring the occurrence of contamination. Currently, 50 supply wells are deactivated of the City's 115 existing supply wells in the San Fernando Valley Basin.

In 1987, USEPA and LADWP signed a cooperative agreement providing federal funds to perform a Remedial Investigation[1] of groundwater contamination in the San Fernando Valley.

In 1989, LADWP worked in conjunction with the USEPA to construct the North Hollywood Operable Unit. This facility is designed to provide treatment for groundwater extracted from the highly concentrated region of the VOC-contaminate plume. A $20 million investigation funded by USEPA was completed which installed 89 monitoring wells and developed a database, GIS system, and regional groundwater flow model which is regularly updated and currently in use for analyzing the groundwater around the City's major well fields.

In 1992, LADWP, in concert with USEPA, completed the Remedial Investigation (RI), and in conjunction with the RI, USEPA prepared a basin-wide Community Relations Plan (now referred to as a Community Involvement Plan), last updated in 1993.

Between 1992 and 2010, LADWP's Water Quality group provided water sample results to the State Water Resources Control Board, Division of Drinking Water (DDW).

In 2010, LADWP installed groundwater treatment units at the Tujunga Well field, which has allowed the reactivation two of the City's supply wells. These units are permitted for "pilot study" and cannot be operated long-term without a permit from the California Department of Public Health.

Currently, the USEPA is coordinating the basin-wide Superfund Remediation and is responsible for community involvement for the overall effort. LADWP wishes to utilize its entitlement of 87,000 acre-feet per year, plus any stored water credits while not impacting any current on-going groundwater extraction and treatment projects conducted by and/or overseen by USEPA. To that end, LADWP and USEPA have agreed that LADWP will pump from certain well fields to capture and treat the residual contamination while the federal agency continues its efforts in source and high-concentration contamination areas. LADWP is studying other treatment processes for further implementation and recovery of the City's groundwater supply wells.

[1] According to the USEPA, a remedial investigation (RI) is performed in order to gather data needed to determine the nature and extent of contamination at a site, establish site cleanup criteria, identify preliminary alternatives for remedial action, and support technical and cost analyses of alternatives.

## 2.2 Phases of the Overall Superfund Remedial Process

The CIP is intended to ensure that the community is given the opportunity to participate throughout the Superfund remedial process. USEPA identifies the following as the key phases of the overall process.

| Phases of Remedial Process | |
|---|---|
| 1 | Discovery |
| 2 | Preliminary Assessment/Site Investigation |
| 3 | Proposed Listing on the National Priorities List (NPL) |
| 4 | Final Listing on the NPL |
| 5 | Remedial Investigation/Feasibility Study[2] (RI/FS) |
| 6 | FS Completion and Proposed Plan |
| 7 | Notice and Comment on Consent Decree (if necessary) |
| 8 | Pre-Record of Decision (ROD) Significant Changes (if necessary) |
| 9 | Record of Decision |
| 10 | Post-ROD Significant Changes (if necessary) |
| 11 | Remedial Design/Remedial Action |
| 12 | Operation and Maintenance |
| 13 | Proposed NPL Deletion and Final NPL (deletion in the *Federal Register*) |

## 2.3 Monitoring Wells

LADWP's groundwater monitoring wells have provided important information in support of the overall USEPA Superfund remedial effort for the San Fernando Basin. Findings of the Groundwater System Improvement Study have been documented in a *Remedial Investigation Update (RI Update) Report*.

One of the tasks necessary to ascertain the condition of the groundwater aquifer under the San Fernando Valley is the drilling of monitoring wells, where water samples are collected for testing purposes only.

26 monitoring wells have been drilled in key locations in the San Fernando Valley –one of which was constructed by the United Stated Environmental Protection Agency. The information gathered from the monitoring wells is used to identify the contaminants and their levels, as well as the location and flow patterns of the impacted underground water.

The first four well locations were as follows:

TJ-MW-06: 8951 Stanwin Ave. (monitoring well on the North parking lane of Wentworth St., West of Stanwin Ave.)
TJ-MW-08: 13681 Chase St. (monitoring well on the West sidewalk of Greenbush Ave., North of Chase St.)
TJ-MW-11: Sharp Avenue at Bromwich
TJ-MW-10: 9231 Lev Ave. (monitoring well on the North parking lane of Bracken St., West of Lev Ave.)

[2] According to the USEPA, a feasibility study (FS) considers alternatives for cleaning up the site and recommends selection of a cost-effective alternative.

As the remaining wells were identified, LADWP updated the CIP accordingly in Section 8 and Appendix A-1.

Background information on the GSIS and detailed information about the technical and institutional processes of installing the monitoring wells can be found in Appendix A-2. Innovative technologies being used in well installation and monitoring can be found in Appendix A-3. Information about previous well monitoring can be found in Appendix A–4.

## 2.4 Community Impacts and Benefits of the Monitoring Wells

Installation of the monitoring wells took place in some residential neighborhoods and included construction activities that may have been disruptive. Potential impacts included noise, temporary loss of street parking, slight temporary increase in local traffic, and the use of heavy construction equipment in a residential setting. The impacts are short-term and most were mitigated. For more details, see FAQs and Fact Sheets included in Section 8.0. The drilling effort is highly evident to the communities closest to the groundwater basin. CIP strategies implemented during the well drilling phase focused largely on the installation of these monitoring wells.

Long-term benefits significantly outweigh the short-term impacts. Cleanup of the contaminated San Fernando Groundwater Basin will allow the expansion of groundwater storage, increase the availability of the City's local water resources, and reduce Los Angeles' dependency on expensive imported sources of water to ensure a sustainable supply to meet future needs.

Monitoring data also provides substantiation for cost reimbursement. Programs such as the groundwater monitoring wells demonstrate LADWP's and the City's commitment to environmental stewardship and to addressing citizen concerns regarding environmental and health issues in their communities. Increasing the use of local groundwater supplies also results in lower water utility bills for customers.

## 2.5 Institutional Partners

Several agencies were involved in the San Fernando Valley Groundwater System Improvements Study. Major agencies and their primary responsibilities are listed below.

| Institutional Partner Agency | Responsibilities/Roles |
|---|---|
| **LADWP** | Program lead |
| **U.S. Army Corps of Engineers** | Well construction for 10 of the 26 wells |
| **California Department of Public Health (CDPH)** | Regulatory oversight and issuance of drinking water permit |
| **U.S. Environmental Protection Agency (EPA)** | Federal Superfund oversight of contamination remediation; Constructed 1 of the 26 wells. |
| **L.A. Department of Transportation** | Review and approval of traffic plan design and implementation |
| **L.A. Department of Public Works** | Permit approvals |
| **L.A. County Flood Control Agency** | Permit approvals for access into the flood control channels |

The monitoring well installation effort also went through the necessary permit process for the construction as well as the noise levels. Agencies and City of Los Angeles offices that were involved include:

Los Angeles County Public Health
City of Los Angeles, Department of Public Works, Bureau of Engineering
City of Los Angeles, Department of Public Works, Bureau of Street Lighting
City of Los Angeles, Department of Public Works, Bureau of Sanitation
City of Los Angeles Department of Transportation
Los Angeles Police Commission
California Regional Water Quality Control Board, Los Angeles Region

# Section 3

## Community Demographics and Target Audiences

### Section 3.0 – Background Information about Interested Parties and Affected Community

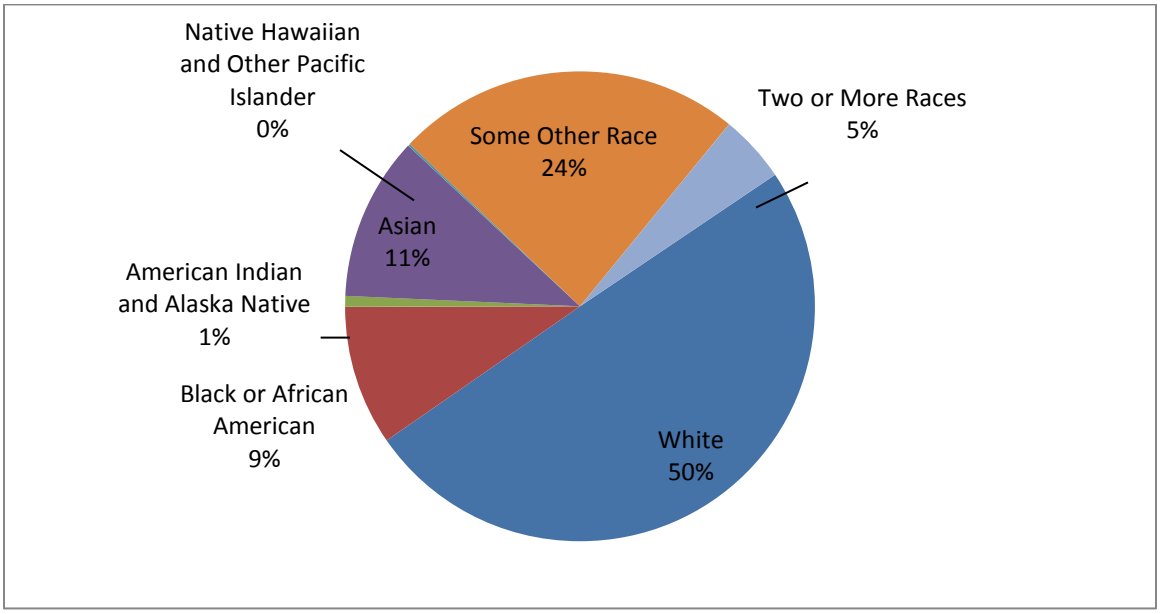
### 3.1 Demographics

**Governance**: The City of Los Angeles has adjudicated rights to approximately 87,000 acre-feet of groundwater per year in the San Fernando Valley Groundwater Basin. LADWP is a department of the City of Los Angeles and provides potable and recycled water to 676,000 residential, business, and industrial customers within the City of Los Angeles. LADWP is governed by a five-member Board of Commissioners appointed by the Mayor and approved by the Los Angeles City Council.

**Demographic Data**: The City of Los Angeles covers nearly 470 square miles and has a population over 4 million (based on US Census Bureau 2010). Median household income in the City of Los Angeles is $50,028 per year. Additional relevant demographic data for the City of Los Angeles are as follows:

**Demographic: Race & Ethnicity**

**Figure 4: City of Los Angeles Population Race**




Of the total population, 48.5% reported being of Hispanic Origin/Ethnicity.
Source: Race, Hispanic or Latino, Age, and Housing Occupancy: 2010
2010 Census Redistricting Data (Public Law 94-171) Summary File

**Demographic: Language**

| | |
|---|---|
| Language other than English spoken at home, percentage 5+, 2007-2011 | 59.90% |

**Demographic: Education**

| | |
|---|---|
| High school graduate or higher, percent of persons age 25+, 2007-2011 | 73.90% |
| Bachelor's degree or higher, percent of persons age 25+, 2007-2011 | 30.50% |

Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, American Community Survey, Census of Population and Housing, County Business Patterns, Economic Census, Survey of Business Owners, Building Permits, Consolidated Federal Funds Report, Census of Governments

Demographic data specific to the San Fernando Valley was also collected to better target the communities where the construction occurred.

**See Figure 5: Mapping L.A. data on the San Fernando Valley from the Los Angeles Times.**

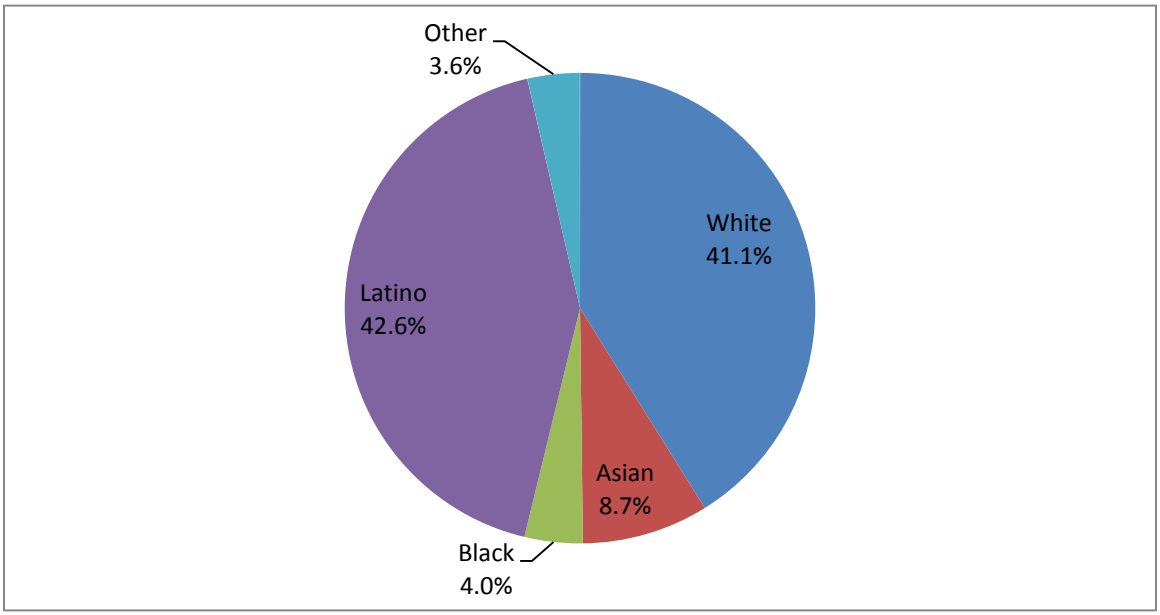



**Figure 5. Mapping L.A. Data on the San Fernando Valley from the Los Angeles Times** **Source:** <http://maps.latimes.com/neighborhoods/region/san-fernando-valley/>. Data used in the LA Times, San Fernando Valley Mapping was derived from the 2000 Census.

## 3.2 CIP Target Audiences

The Community Involvement Plan targets the following major audiences:

- **Governance** – Mayor and City Councilmembers
- **San Fernando Valley Neighborhood Councils, Homeowner Associations, and other community and business groups** (i.e. Chambers of Commerce, VICA, BOMA, etc.)
- **Environmental and other interest groups** (i.e. Water focused groups)
- **Residential and commercial customers** (City Council Districts 6, 2, 7)
- **Immediate neighbors of well drilling sites**
- **LADWP customers**
- **The general public**

# Section 4

## Community Issues and Concerns

### 4.0 Community Issues and Concerns Identified Early-On

Based upon meetings with members of the community and LADWP's ongoing outreach to neighborhoods in the San Fernando Valley, the most important community issues and concerns were identified as follows:

**Regional**
Restoration of local water supply
Public health and safety

**At Well-Sites**
Purpose of the drilling monitoring wells
How the drilling impacts immediate neighbors' lives
Safety of the wells

This CIP has also taken into consideration the key community issues that USEPA documented in its San Fernando Valley Community Relations Plan, August 1993. Those key community issues and concerns were:

**The Role and Function of a Community Work Group**
Disbanded in January 1993 due to lack of participation

**Distribution of Information**
Reach more people more effectively
Inform South Los Angeles area about remediation efforts because this service area receives water from the North Hollywood Operable Unit

**Briefings to Local Governments**

**Groundwater Issues**
Similar to Regional Issues cited above

**Site Cleanup**
Timeliness, costs, other issues affecting implementation of remediation

## 4.1 Community Outreach Summary

Prior to drilling the first monitoring wells, LADWP implemented an aggressive outreach effort to agencies, elected officials, Neighborhood Councils, and immediate neighbors of the proposed well sites. This effort began in 2011 and continued throughout the program as new well sites were added. Stakeholders have been generous with their cooperation and input to the CIP.

A summary of outreach prior to the first well construction is shown below. This includes additional outreach to the partner agencies, elected officials, and Neighborhood Councils as new well sites were added. Detailed information on interactions with neighbors at subsequent well sites can be found in Section 8.0:

| Agency, Stakeholder, or Target Audience | Date(s) | Type of Communication or Outreach |
|---|---|---|
| **Inter-Agency Coordination** | | |
| City of Los Angeles Department of Transportation | December 16, 2010 | Coordination of major street repair projects, re-surfacing, etc. |
| City of Los Angeles Department of Public Works | December 2010/January 2011 | Coordination of sewer or storm water projects |
| **Elected Officials** | | |
| City Council District 6 | January 20, 2011 | Briefing and coordination of outreach to CD6 constituents |
| CD6 field deputy Lorena Bernal | September 7, 2012 | Coordination of outreach to CD 6 constituents |
| CD 7 – Pacoima District Office | January 28, 2013 | Briefing and coordination of outreach to CD7 constituents |
| CD 2 – Damian Carroll at City Hall | February 26, 2013 | Briefing and coordination of outreach to CD2 constituents |
| CD 6 Briefing Requested via email | May 23, 2013 | No response. Pending change in leadership due to re-election. |
| CD 6 – Lydia Levitan | September 12, 2013 | Briefing for new Council Office representative (Martinez) post-election. |
| CD 7 – Pacoima District Office | November 4, 2013 | Briefing for new Council Office representative (Fuentes) post-election. |
| **Neighborhood Councils and Other Organizations** | | |
| Pacoima Neighborhood Council | February 4, 2012 | Briefed Jeff Stansfield of the Pacoima NC to prepare for agenda |
| Pacoima Neighborhood Council | March 21, 2012 | Presented project information at monthly meeting |
| Neighborhood Council MOU | April 2, 2012 | Presented project information at |

| | | |
|---|---|---|
| Oversight Committee Meeting | | monthly meeting |
| Arleta Neighborhood Watch | August 23rd 2012 | Presented project information at monthly meeting |
| Arleta Neighborhood Council meeting | August 24, 2012 | Presented project information at monthly meeting |
| Arleta Neighborhood Council | December 18, 2012 | Presented project information at monthly meeting |
| North Hollywood Northeast Neighborhood Council | February 21, 2013 | Presented project information at monthly meeting |
| North Hollywood West Neighborhood Council | February 27, 2013 | Presented project information at monthly meeting |
| **Community Meetings for Regional and Local Stakeholders** | | |
| Community Meeting at Branford Park for neighbors of TJ06: Stanwin & Wentworth | December 8, 2011 | Presented the details of the well drilling project at Stanwin and Wentworth, as well as provided an overview of the entire groundwater improvement plan. |
| Community meeting at Saticoy Field office for neighbors of Stanwin well site | February 2, 2012 | Community Meeting at the LADWP Saticoy Field Office |
| LADWP hosted a meeting for neighbors of Bracken and Arleta well site. | June 15, 2012 | Presented information about well drilling construction |
| **Neighbors of Well Sites** | | |
| Introductory phone calls to Immediate Neighbors of Proposed Well Sites | May, June 2011 | Introductory phone calls to alert neighbors of upcoming well installation construction |
| Neighbor of Stanwin site (Sergio Ibarra) | November 2011 | Coordinate outreach to community and meeting planning |
| Letters, community meeting invitation to neighbors of Stanwin well site, Ad in local newspaper | Week of January 15, 2012 | Invitation sent to all homes within 500 feet of Stanwin well-site for February 2, 2012 community meeting |
| Call and follow-up (well site neighbor C. Sloan) | January 10, 2012, April 9, 2012 | Coordinate parking issues with resident and City street services departments |
| Call and follow-up (well site neighbor C. Rueff) | January 27, 2012, February 15, 2012, March 30, 2012 | Coordinate construction issues (access, noise, other) |
| Hotline established | January 2012 | Residents can call 213- 367-0107. Hotline information is |

| | | |
|---|---|---|
| | | available in English and Spanish. |
| Project start notices distributed to neighbors within 1, 500 feet radius and immediate area of Wentworth & Stanwin site | January 15, 2012<br>March 30, 2012 | Written notice of upcoming well drilling construction |
| Call and follow-up (well site neighbor Mr. McKenzie) | April 9, 2012 | Coordinate construction issues |
| Call and follow-up (well site neighbor Mr. Roy) | August 27, 2012 | Construction issues (access) |
| Call and follow-up (well site neighbor Ms. Hernandez) | August 31, 2012 | Construction issues, general |
| Call and follow up (well site neighbor Ms. Yashida) | August 31, 2012 | Construction issues (access) |
| Project start notices distributed to Arleta well site neighbors | August 31, 2012 | Written notice of upcoming well drilling construction |
| Project start notices distributed to well site #10 neighbors | September 17, 2012 | Written notice of upcoming well drilling construction |
| Night-work notices distributed to well site #10 neighbors | October 15, 2012 | Written notice of upcoming night-time well drilling construction |
| Call and follow-up (well site neighbor Mr. Bondoc) | October 15, 2012 | Night time construction issues |

**See Section 8.0 for additional information on outreach activities related to the 25 wells constructed by LADWP.**

# Section 5

## Community Involvement Activities, Communications Strategy, Messaging, and Timing

### 5.0 Key Messaging and Outreach Objectives

Monitoring wells are very necessary to monitor and subsequently clean up the groundwater in the San Fernando Valley Groundwater Basin in order for the LADWP to access its full allotment of one of the inexpensive water supply resources in the LADWP portfolio. Key messages and outreach objectives include:

- Restore the environment
- Create awareness of and educate stakeholders about the drilling process, parameters and goals
- Communicate strategies for cleaning up the water table to meet various policy goals and regulatory requirements while maintaining reliability and low rates
- Create a dialogue and receive public input that helped mitigate the drilling under consideration that impacted neighborhoods, and that provides opportunities for the public to be involved in the Superfund remediation process
- Take the leadership to restore the environment

### 5.1 Community Involvement Activities

#### 5.1.1 Briefings

Elected Officials: LADWP formally briefed (in-person) elected officials representing project area prior to well drilling construction in their respective districts. These include Council Districts 6, 2, and 7. Community relations as well as technical staff were available in the briefings to respond to a wide range of issues and questions. For dates of these briefings, please refer to Sections 4.1 and 5.1.3.

Large Customers: Since the monitoring wells were all located in residential areas, none of the drilling operations affected large, commercial customers. The LADWP Community Outreach Group worked with the smaller commercial customers impacted by the drilling operations.

USEPA: The USEPA community involvement coordinator is Jackie Lane. LADWP staff briefed Jackie Lane regarding CIP activities early on in the GSIS project.

Jackie Lane, Community Involvement Coordinator
415-972-3236
Lane.Jackie@epamail.epa.gov

### 5.1. 2 Presentations to Community-Based, Business, and Environmental Organizations

LADWP attended and presented project information to the Neighborhood Councils representing the project area. These include:
Arleta Neighborhood Council
Pacoima Neighborhood Council
Arleta Neighborhood Watch
North Hollywood Northeast Neighborhood Council
NoHo West Neighborhood Council

As additional wells were identified, LADWP staff identified the appropriate Neighborhood Council(s), attended their meetings prior to drilling the additional wells, and presented current project information. Dates for the meetings can be found in Sections 4.1 and 5.1.3.

LADWP has also attended and presented project information to the LADWP MOU Oversight Advisory Committee, at least annually.

If necessary, LADWP can attend and present project information to Business organizations representing the project area. These include:
Arleta Business Watch
VICA
Other

LADWP can brief the executive management of Environmental and other organizations with an interest in Los Angeles water issues, on an as-needed basis. These include:
TreePeople
Heal the Bay
Santa Monica Bay Keeper
Friends of the Los Angeles River (FOLAR)
Sierra Club

### 5.1.3 Community Interviews

USEPA conducted community interviews to prepare the basin-wide Community Relations Plan (last updated in 1993). LADWP identified the following groups and/or offices as contacts for up to 15 additional community interviews. Through these additional interviews, LADWP would have an opportunity to provide information about the project and to solicit further insights regarding effective community outreach in the project area, particularly for the well-drilling phase.

LADWP interviewed 20 of these groups, with the contact dates listed below or in Section 4.1.

The CIP has been updated based upon information received through the community outreach. Potential interview questions are included in Section 6.0.

1. United States Representative District 28: (10/28/14, 11/7/14)
2. State of California Assembly Member District 39
3. State of California State Senator District 20
4. City Council District 6 Councilmember or staff: (1/20/11, 9/7/12, 5/23/13, 9/12/13,)
5. City Council District 2 Councilmember or staff: (2/26/13)
6. City Council District 7 Councilmember or staff: (1/28/13, 11/4/13)
7. Mayor of Los Angeles, San Fernando Valley Office: (7/11/2013, 9/19/2013, 8/20/14)
8. L.A. County Supervisorial District 3 – Supervisor or staff
9. Arleta Neighborhood Council President: (8/24/12, 12/18/12)
10. Neighborhood Council / LADWP MOU Oversight Committee Chair: (4/2/12)
11. Polytechnic High School Principal: (7/31/13)
12. Sun Valley High School Principal
13. Arleta High School Principal
14. Richard E. Byrd Middle School Principal: (8/1/13)
15. Ararat Charter School Principal: (8/7/13)
16. Erwin Elementary School Principal: (7/31/13, 8/7/13)
17. Grace Community Church Pastor
18. St. Genevieve Catholic Church & High School Pastor
19. Kaiser Permanente Hospital – Panorama City LADWP Acct. Mgr.: (12/14/11)
20. San Fernando Valley Japanese American Community Center President
21. Upper Los Angeles River Area (ULARA) Water Master: (8/20/14)
22. California DOT (CALTRANS)
23. TreePeople
24. Heal the Bay
25. Santa Monica Bay Keeper
26. Friends of the Los Angeles River
27. Arleta Neighborhood Watch: (8/23/12)
28. Pacoima Neighborhood Council (NC): (2/4/12, 3/21/12, 2/4/13)
29. North Hollywood Northeast NC: (2/21/13, 7/25/13)
30. North Hollywood West NC: (2/27/13)
31. Los Angeles Department of Parks and Recreation: (12/5/11)
32. Los Angeles Department of Public Works: (12/2010, 1/2011, 9/9/2011)
33. Los Angeles Department of Transportation: (12/16/10)

### 5.1.4 Community Acceptance Analysis

LADWP reviewed community input, questions, and concerns and assessed the community acceptance related to well drilling and/or the monitoring study. The CIP has been updated to incorporate public information or community involvement activities that will help respond to significant issues and concerns.

### 5.1.5 Media Relations

LADWP publicized the overall well drilling effort to increase a citywide understanding of the groundwater contamination.

An advertisement was placed on January 26, 2012 in a local newspaper to announce the Neighborhood Community Meeting of the earliest wells.

This CIP is updated with relevant media articles in Appendix B-1.

### 5.1.6 Postings on LADWP Website

The LADWP website shows complete information regarding the project including background, history, and construction and operation updates. Contact information for the Community Relations Office was posted on the website, which was utilized as the project hotline number.

The website is updated as needed, and will be particularly important at the time the draft FS is published. Key information will be available to the public via the website, including details about the availability of the document for public review and comment. LADWP will also use the website to publicize a public meeting to discuss the results, answer questions, and receive comments.

If other partner agencies (e.g. USEPA or RWQCB) hold significant public meetings or hearings related to the GSIS project, those public meetings were publicized in advance on the LADWP website. Additional notification of target audiences (e.g. mailings) was implemented by LADWP as needed.

**The website address is: www.LADWP.com/wells.**

### 5.1.7 Postings on Community Partners' Websites

LADWP prepared and distributed very brief project-related announcements to various community partners to post on their respective websites. In particular, the Panorama City Neighborhood Council was going to post information on their website regarding the council meeting attended by the LADWP. The Council wished to publicize the monitoring wells and their need.

### 5.1.8 Public Hotline

A project hotline that went to a dedicated voicemail box was set up for callers. The number is: (213) 367-0107. In April 2013, the project hotline voicemail box was phased out to direct customers to the Community Relations Office in order to ensure a timely response to customer concerns. The contact telephone number utilized in public notifications was changed to (213) 367-1361.

### 5.1.9 Collateral Materials Targeting Neighbors of Well Sites

LADWP's Communications Group has prepared:
Project Fact Sheet in English and Spanish
Project Frequently Asked Questions (FAQs) in English and Spanish
Customer letter/postcard template
Door hanger for door-to-door notifications
Banners with contact information posted at construction sites

Information is tailored to site-specific needs and includes clear explanations of technical aspects of the well drilling and source water monitoring effort. Project fact sheets and FAQs are distributed widely and were distributed at community meetings. The customer letter has been mailed to residents and businesses in at least a two-block radius in the vicinity of the actual well drilling operations. The fact sheets and FAQ are also posted on the LADWP web page. Samples of the fact sheet, FAQ, and letter/doorhanger can be found in Section 6.

### 5.1.10 Community Meetings

LADWP has held community meetings for residents and businesses in the general vicinity of its initial well drilling sites. LADWP continued to hold at least one community meeting in advance of well drilling construction to give the interested public the opportunity to become informed and involved. In cases where well drilling sites were close in proximity, for the sake of efficiency for the public as well as the LADWP, a single community meeting may have addressed more than one well site.

LADWP monitored participation levels in community meetings. Angelenos oftentimes do not attend City-sponsored meetings. They more typically get information other ways: usually through their various organizations, Neighborhood Councils, schools, newspapers, websites and mailers. On April 22, 2013, at the community outreach planning meeting, the project team decided to eliminate community meetings for each well site, unless requested by the Council Office. Previous community meetings were poorly attended. In an effort to communicate this to the greater community, the outreach continued to focus on neighborhood council meetings and other organizations (i.e. local schools) as identified for each construction site.

### 5.1.11 Outreach to Well Site Neighbors and Responses to Calls and Inquiries

LADWP developed the collateral materials mentioned above primarily for use in outreach to well site neighbors. For the neighbors of wells drilled, LADWP mailed customized letters in appropriate languages (English and Spanish), and distributed fact sheets and FAQs in advance of the commencement of construction within the neighborhood. Outreach was coordinated with the office of the respective City Councilmember.

Construction, technical, and LADWP outreach staff have been trained in positive community relations and the City's commitment to be a good neighbor prior, during, and after well drilling. The process of advance notification, mitigation of impacts whenever possible and prompt responsiveness to calls and inquiries has worked well. Issues of concern communicated to LADWP thus far were parking and driveway access and nighttime construction. Calls made to the project hotline were responded to promptly and often required substantive follow-up, including multi-agency coordination. All calls were documented as part of the project record.

### 5.1.12 Project Site Mailing List

LADWP has developed a project site mailing list of residents and businesses within a 1,500 foot radius of each well site. Much of the database contains contact information for immediate neighbors of the well drilling sites. Elected representatives, neighborhood councils, other residential/business associations, and sensitive land uses in the general vicinity (e.g. hospitals and schools) are also noted for each well site.

Mailing lists are available upon request; contact information provided by LADWP will protect the privacy of individual members of the public as necessary and appropriate.

### 5.1.13 Public Repository for the Administrative Record and Relevant Public Information

Three public information repositories in the Los Angeles region have been established for the San Fernando Basin Superfund project.[3] Of these three, one is in Downtown Los Angeles and two are in cities other than Los Angeles (see below). In early discussions about the GSIS project with local elected officials, Council staff requested a more local repository be established at a nearby Los Angeles public library. Important information made available to the public through the repository includes the GSIS work plan, a summary of monitoring results, fact sheets, and the project CIP. The purpose of maintaining the repositories is so the public can keep informed of project developments as they occur, reducing the likelihood of misinformation, lack of information, or speculation.

[3] www.yosemite.epa.gov, San Fernando Basin Superfund, Public Information Repositories, February 2013

LADWP established the City of Los Angeles Panorama City Public Library as an additional, more local, public repository site for program information.

**Panorama City Public Library**
14345 Roscoe Boulevard
Panorama City, CA 91402-4297
818-894-4071

LADWP placed duplicate project information in the other three established San Fernando Basin repositories, which include:

City of Burbank Public Library
110 North Glenoaks Street
Burbank, CA 91502
818-238-5880

City of Glendale Public Library
222 East Harvard Street
Glendale, CA 91205
818-548-2021

City of Los Angeles Technical Central Library
630 West 5th Street
Los Angeles, CA 90071
213-228-7216

LADWP provided duplicate materials to USEPA, which maintains a collection of documents at:
Superfund Records Center
Mail Stop SFD-7C
95 Hawthorne Street, Room 403
San Francisco, CA 94105
415-820-4700

LADWP will publish a notice of availability of project information materials in the newly established Panorama City Public Library Public Information Repository in a major local newspaper of general circulation (e.g., L.A. Daily News and/or L.A. Times).

Please refer to Section **9.0** which identifies additional information about Public Information Repositories.

### 5.1.14 Public Notification Upon Release of the RI Update & *draft* FS Reports

LADWP will publish a notice of availability of the RI Update Report in a major local newspaper of general circulation. The Information Repositories listed in Section **5.1.13** each contain a copy of the RI Update Report.

LADWP will publish a notice of availability of the FS in a major local newspaper of general circulation. The notice will announce a comment period.

Upon completion of the draft FS Report and Proposed Plan, LADWP will also publicize and hold a public meeting to allow the public opportunity to learn the key findings contained in the draft FS Report and Proposed Plan, and to provide comments to the City of Los Angeles. The meeting will be held in the San Fernando Valley after the draft Report has been made available to the public in the Information Repositories.

The public will be encouraged to provide comments on the Report. The LADWP will consider and summarize public comments and the agency's response to those comments. The summary and responses will become part of the Administrative Record available to the public at the Public Information Repositories.

## 5.2 Timing of Community Involvement Activities

### 5.2.1 Well-site Focused Outreach Timeline

Elected Official briefings began with CD 6 in early spring 2011.
Other elected officials, primarily affected City Council districts, were briefed in advance of well drilling within their respective districts. CD 2 and CD 7 were also affected and thoroughly briefed.
Letters/door hangers to impacted residents were prepared in spring 2011.
Collateral materials – FAQs and a project fact sheets -- were completed in December 2011.
Collateral materials – FAQ, project fact sheets and door hangers – were updated in April 2013.

Approximately one month prior to the startup of drilling operations:
Immediate neighbors of well sites were notified in writing, which included the letter/door hanger and collateral materials mentioned above.
The Neighborhood Council representing the impacted neighborhood received a briefing and/or presentation.
A community meeting was held for the broader residential and business public as requested by the Council Office.
Relevant information was posted on LADWP's website.

Approximately one to two weeks prior to the startup of drilling a new monitoring well, LADWP delivered a construction notification to the closest 25-30 neighbors.
LADWP also implemented the media relations strategy described in **5.1.5** above.

### 5.2.2 Outreach Timeline for Public Review and Comment on the draft *Feasibility Study Report*

Upon completing the draft *FS Report*, certain key outreach activities must take place:

Elected officials of affected Council Districts will be briefed again to provide updated information about the findings and conclusions discussed in the draft Feasibility Study (FS) prior to its publication (See 5.1.1 above).

Fact sheets and FAQs will be updated during the detailed analysis of alternatives to present key findings and conclusions of the draft FS. They will be updated again upon the completion of that report. These will be distributed to neighbors of the well sites, their respective Neighborhood Councils, as well as the interested parties included in the project database (See 5.1.9 above). Fact sheets, FAQs, and updated versions will be placed in the public information repositories as well.

The updated information will be added to the Public Information Repository (See 5.1.14 above).

A press release summarizing the highlights of draft FS Report will be prepared and distributed to all appropriate local and citywide media included in the project database (See 5.1.5 above).

LADWP will notify the public of the availability of the FS Report and a corresponding public meeting. Included in the public notice will be a deadline for the public to provide comments on the document. LADWP will provide at least 30 days for the public to comment either in writing or orally at a public meeting (See 5.1.6 and 5.1.14 above).

A public meeting, attended by LADWP technical and outreach staff, will be held after official public notification. Comments on the draft *FS Report* will be recorded by a court reporter who will prepare a meeting transcript (See 5.1.14 above).

Following the public meeting, LADWP will summarize and respond to public comments. Comments received in writing will be included in the summary along with LADWP responses (See 5.1.14 above).
The Administrative Record in the Public Information Repository will be updated to include the summary of comments and LADWP responses (See 5.1.14 above).

Upon finalizing the *FS Report*, LADWP will:
Place copies of the final Report in the Public Information Repositories.
Publish a notice of availability of the final Report in a major local newspaper with general circulation.

# Section 6

## Community Interview Questions

Although, individual interviews were not performed, information that would have been obtained through interviews was collected throughout. Neighborhood Council Meetings, Community Meetings, and councilmember briefings were held to inform the public about the well drilling activities. Dates for the corresponding meetings in each District are organized by well in Section 8.0. Additionally, neighbor outreach and individual concerns were addressed at each well site, which is also summarized in Section 8.0.

The following list of potential, interview questions was used as a guide to gather the necessary input.

1. LADWP currently is preparing a comprehensive study for the best options to improve its groundwater system. The study includes informing and engaging members of the public.

   Do you have any advice for us?
   a. About talking with your members/constituents regarding groundwater as a local source of water for Los Angeles?

   b. How to get people involved in meetings and other outreach for the groundwater study? How do you get people involved?

2. Public participation is an important component to the success of the groundwater study effort. Who would you recommend we ask to participate in meetings, and/or give presentations to?

3. Where do people that you represent like to meet? Do you have any recommendations? (For example: City Council field office; schools; regional City Halls e.g., San Fernando Valley, Los Angeles Harbor area; other.)
   Do you think it is more efficient to meet people at Neighborhood Council meetings rather than hold separate project-specific meetings?

4. We want to inform the public and answer all of their questions related to the use and quality of water from our groundwater basins. Do you have any concerns about it?

   People will look to their leaders as a barometer of whether improving the groundwater system is a good thing or not. So if you have any reservations about that or questions, we'd like to hear them and get information to you,

5. We have also placed information about the groundwater systems study on LADWP's website. Do you think your constituents will take the time to find out about this project by going to the website?

   (If YES)—Would you help us by including an announcement about the website in your own website (or newsletter)?

   (If NO)—Are there other ways you'd recommend getting the word out?

6. We are setting up a “repository” of information related to the groundwater system study. It is going to be located at: (library name/address). We simply want to make sure you are aware that these resources will be readily available for the community. The same information will be available at other locations in Los Angeles, Burbank, and Glendale.

   (No response is needed for this question. You are simply telling them about it.)

# Section 7

## Key Contact List

### Section 7.0 – Key Community Leaders, Sensitive Land Uses, and Interested Parties

### Elected Officials

**United States Representative District 28 Howard Berman**
District Office
Congressman Howard L. Berman
14546 Hamlin Street, Suite 202
Van Nuys, CA 91411
Phone: (818) 994-7200

**State of California Assembly Member District 39 Felipe Fuentes**
8309 Laurel Canyon Boulevard, #239
Sun Valley, CA 91352
Phone: (818) 252-0039

**State of California State Senator District 20 Alex Padilla**
5015 Eagle Rock Blvd., Ste. 100
Los Angeles, CA 90041
Phone: (323) 254-5700

**City Council District 2 – Councilmember Paul Krekorian**
Damian Carroll – CD2 Constituent - Downtown L.A. City Hall 200 N. Spring St. Rm. 435, (213) 473-7002 Councilmember.Krekorian@lacity.org

**City Council District 6 -- Councilmember Tony Cardenas (2003 - 2013)**
Jose Cornejo – Chief of Staff – Downtown L.A. City Hall 200 N. Spring St Rm 455, 213 473-7006 jose.cornejo@lacity.org
Emily Williams, Deputy Chief of Staff – Van Nuys City Hall 14410 Sylvan St Rm 215, 818 778-4999 emily.williams@lacity.org

**City Council District 6 – Councilmember Nury Martinez (2013 - Present)**
Lydia Levitan – Area Director 14410 Sylvan St. Suite 215, 818-778-4999 lynda.levitan@lacity.org

**City Council District 7 – Councilmember Richard Alarcon (2007 - 2013)**
Pacoima District Office
13520 Van Nuys Blvd. Suite 209
(818) 485-0600

**City Council District 7 – Councilmember Felipe Fuentes (2013 - Present)**
Pacoima District Office
13520 Van Nuys Blvd. Suite 209
(818) 485-0600

**L.A. County Supervisorial District 3 – Supervisor Zev Yaroslavsky**
Alisa Belinkoff Katz – Chief Deputy – Downtown L.A. Hall of Administration
Lori Garcia Wheeler – Senior Field Deputy for Outreach -- Van Nuys District Office14340 Sylvan St. Suite A, Van Nuys CA 91401; Phone 818 901-3831

## Neighborhood Councils

**Arleta Neighborhood Council**

President: Jim Kallas 818 897-4908 jkallas@arletanc.org; jkallas1123@hotmail.com
Vice-President: Saul Perez 818 326-3789 sperez@arletanc.org
Community Improvement Committee: Benny Bernal 818 314-5479
bbernal@yahoo.com
Website: www.arletanc.org

**Neighborhood Council / LADWP MOU Oversight Committee**
Tony Wilkinson, Chair 818 785-9355 lawilkinson@acm.org; slotony@gmail.com
Chuck Ray, Vice-Chair 310 869-6566 chuck@marvista.org

## Sensitive Land Uses

**Polytechnic High School (also math/science magnet)**
Principal: Loera Gerardo
Address: 12431 Roscoe Blvd.
Sun Valley, CA 91352
Telephone: 818-394-3600

**Sun Valley High School**
Principal: Gray, Gary S.
Address: 9171 Telfair Ave.
Sun Valley, CA 91352
Telephone: 818-394-4600

**Arleta High School**
Principal: Calvo, Linda A.
Address: 14200 Van Nuys Blvd.
Arleta, CA 91331
Telephone: 818-686-4100

**Richard E. Byrd Middle School (also match/science magnet)**
Principal: Reynolds, Sondra H.
Address: 8501 Arleta Ave
Sun Valley, CA 91352
Telephone: 818-394-4300

**Vena Elementary School**
Principal: Nichols, Maria E.
Address: 9377 Vena Ave.
Arleta, CA 91331
Telephone: 818-896-9551

**Canterbury Elementary School**
Principal: Rodriguez, Graciela L.
Address: 13670 Montague St.
Arleta, CA 91331
Telephone: 818-892-1104

**Grace Community Church**
Pastor: John MacArthur
Church Administrator: Jonathan Rourke
13248 Roscoe Blvd.
Sun Valley, CA 91352
Phone: 818 909-5500

**St. Genevieve Catholic Church & High School**
Pastor: Father Alden J. Sison, Ext. 111
Associate Pastor: Father John Kyebasuuta Jr., Ext 108 frjohn@stgenevievechurch.org
High School Principal: Dan Horn 818 894-6417
14061 Roscoe Blvd.
Panorama City, CA 91402-4214
Phone: 818 894-2261

**Kaiser Permanente Hospital – Panorama City**
13651 Willard St.
Panorama City, CA 91402
Phone: 818 375-2000
Human Resources – Central Medical Office Building
13652 Cantara St., Panorama City, CA 91402
Phone: 818 375-3401

**San Fernando Valley Japanese American Community Center**
Karl K. Nobuyuki, President dolphin0545@yahoo.com
12953 Branford St.
Pacoima, CA 91311
Phone: 818 899-1989

**Erwin Street Elementary School/Ararat Charter School (Shared Campus)**
13400 Erwin St
Van Nuys, CA 91401
Principals: Mr. McClay & Mr. Vahe Boujekian
818-988-6292/818-787-9527

## Interested Agencies

**Richard Slade, PG, CEG - Upper Los Angeles River Area (ULARA) Water Master**
Richard C. Slade & Associates, LLC
12750 Ventura Bl. #202
North Hollywood, CA 91606
818 506-0418

**California DOT (CALTRANS) / Flatiron Construction Corp.**
**(CALTRANS construction yard located at proposed Cranford/Wentworth well site)**
Emile R. Eid, P.E. – I-5/170 Widening Project Manager – CALTRANS
9215 Cranford Ave. Pacoima, CA 91331
Office: 818 788-3303

Toby Krutz - 1-5/170 Widening Project Manager – Flatiron Construction Corp.
9215 Cranford Ave. Pacoima, CA 91331
Office: 818 252-3897

**State of California Water Resources Control Board Division of Drinking Water (DDW)**
District 15 – Metropolitan
500 North Central Avenue
Suite 500
Glendale, CA 91203
Office: 818 551-2004

**United States Environmental Protection Agency (US EPA)**
Pacific Southwest, Region 9
75 Hawthorne Street
San Francisco, CA 94105

**Los Angeles Regional Water Quality Control Board (RWQCB)**
Groundwater Division – Remediation Section
320 West Fourth Street, Suite 200
Los Angeles, CA 90013
Office: 213 576-6600

**California Department of Toxic Substances Control (DTSC)**
Regulatory Assistance Office
1001 I Street
Sacramento, CA 95814
Mailing Address:
P.O. Box 806
Sacramento, CA 95812
800 728-6942

## Interested Parties

The Interested Parties listed below are Environmental groups who are frequently involved in LADWP outreach efforts and are interested in activities involving the San Fernando Basin, as it relates to both the environmental protection and water supply. These groups have also shown an interest in the LADWP recycled water community committee. Interested parties also include those who may be held accountable for funding and/or conducting the remediation activities.

**TreePeople**
12601 Mulholland Drive.
Beverly Hills, CA 90210
Phone: 818-623-4862

**Heal the Bay**
1444 9th Street
Santa Monica, CA 90401
Phone: 310-451-1500
800 HEAL BAY (in California only)

**Santa Monica Baykeepers**
120 Broadway Suite 105
Santa Monica, CA 90401
Phone: 310-305-9645

**Friends of the Los Angeles River (FOLAR)**
Los Angeles River Center and Gardens
570 W. Ave 26 #250
Los Angeles, CA 90065
Phone: 323.223.0585

# Section 8

## Public Information Materials and Public Outreach Summary

**Section 8.0** – Public Information Materials and Summary of Public Meetings and Outreach

This section include public information materials distributed to residents about the construction activities for monitoring well installation, including letters, notices, fact sheets, and “Frequently Asked Questions” distributed to residents.

Summaries of well-specific outreach activities, notices, inquiries received from community members during construction, and follow-up calls from City staff are listed by well in Section 8.2.

In addition, Appendix B-1 contains examples of media coverage, including news articles/reports, advertisements, and press releases related to the project.

### 8.1 General Public Information (Collateral) Materials

1. Template letter of notification (English and Spanish versions)
2. Template fact sheets (English and Spanish versions)
3. Template FAQs (English and Spanish)
4. Construction Site Sample Banner
5. Materials for Presentations and Briefings

1. Template letter of notification (English and Spanish versions)

Los Angeles Department of Water and Power

## Groundwater Monitoring Well Installation
**[LOCATION]**

[Date]

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin as early as **[Date]** on the **[location].** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea

[Location]

[Date]

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **[date]** en **[location].** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Asuntos Comunitarios**
**(213) 367-1361**
**www.LADWP.com/wells**

2. Template fact sheets (English and Spanish versions)

Los Angeles Department of Water & Power

## GROUNDWATER SYSTEM IMPROVEMENT STUDY

# FACT SHEET: WELL DRILLING PROJECT

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin in early 2012 and will last approximately three months.

The monitoring well will be located on Wentworth Street west of Stanwin Avenue. Construction will involve drilling a small borehole to a depth of 1,300 feet and installing several small diameter PVC pipes into the borehole. The borehole will be backfilled and covered with a cast iron maintenance lid at the ground surface.

Equipment used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the casings.

For the safety of the public, the sidewalk will be closed near the drill rig. Sound barriers will be installed to suppress the construction noise as much as possible.

Construction work will not affect your water or power service unless unforeseen circumstances require a service interruption.

## TRAFFIC AND ACCESS

Wentworth Street will be closed in the westbound direction from Stanwin Avenue to Woodale Avenue for the duration of this project. On-street parking will be restricted on Wentworth Street and on Stanwin Avenue where designated by posted signs. Please obey all pedestrian and traffic detours which are provided for your safety.

LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

## WHY ARE WE DOING THIS?

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to improve LADWP's use of this local water supply from the San Fernando Groundwater Basin.

Water samples will be collected from the monitoring wells to analyze the patterns of contamination in the underground water supply and determine the nature and extent of any pollution. The location of each well was selected to measure water quality along specific groundwater flow paths which lead towards water supply wells in the nearby LADWP well field.

It should be noted that the planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples will be taken from these wells on a quarterly basis.

This Groundwater System Improvement Study will ultimately result in projects which remove contamination, enchanced stormwater capture and improve the use of the local water supply. These future projects are not planned to take place in your neighborhood. This program will also reduce our dependency on expensive imported water and result in lower costs to LADWP customers. This strategy is to ensure a safe, secure, cost effective, and sustainable water supply that will meet the future needs of the City.

## NEED MORE INFORMATION?

If you have questions about the project, please feel free to contact Kim Hughes at (213) 367-4417 in our Community Relations Office and she can assist in getting answers to any questions, needs or problems.

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Los Angeles Department of Water & Power

# GROUNDWATER SYSTEM IMPROVEMENT STUDY
# DRILLING MONITORING WELLS

Approximately 26 new groundwater monitoring wells will be drilled and constructed in the San Fernando Valley over the next few years, as part of a larger LADWP program to clean up and utilize valuable but contaminated groundwater in the San Fernando Groundwater Basin.

Monitoring that groundwater is one critically important first step of the clean up process. LADWP will collect groundwater samples over a period of several years. Those samples will be analyzed in laboratories and the lab results will guide engineers and scientists in selecting the best possible water treatment systems to use.

Monitoring wells will be installed throughout the San Fernando Valley, many in residential neighborhoods. This fact sheet was prepared to inform residents about what they may expect during the construction process.

## MAJOR STEPS OF WELL CONSTRUCTION

### PHASE 1

**Mobilize (Set up on work site)**
**Drill and install conductor (outside) well casing**
**Set up drill rig and equipment**
**DURATION: 2 WEEKS**

**EXPECT:**

- Traffic and parking signing installed
- The drill rig will be set up and will remain for up to 8 weeks
- Several large trucks will bring in water tanks and storage bins
- Sections of the sidewalk may be closed off for public safety, and remain closed for approximately 10 – 11 weeks
- Some street parking may be unavailable for that same period
- No utilities or substructures should be disrupted during any phase of the well drilling process
- Sound barriers put into place
- The on-site job foreman will be available to talk with neighbors and answer questions
- Truck traffic during this phase should be relatively light

### PHASE 2

**Drill pilot hole**
**Sample water**

**DURATION: 2 WEEKS**

**EXPECT:**

- Drilling will typically be during daytime hours
- Noise will be minimized by using mufflers and quiet-running motorized equipment to the degree possible. Other sound dampening equipment may also be used
- Some driveways could be blocked for brief periods, but the on-site foreman will help residents with access
- Drilling at this stage requires the power of heavy duty diesel generators
- Drilling will use some drive hammers or other pounding equipment for very short periods (minutes)
- The contractor will store some major equipment at a laydown area nearby, but not in the immediate neighborhood
- Dust is unlikely, but the contractor will be required to keep the work site clean
- Workers, usually in pickup trucks, will drive in and out of the neighborhood about 10 times (more or less) daily

## PHASE 3

**Ream borehole to larger diameter**
**Construct well**
**Develop (clean out) well**

**DURATION: 2 - 4 WEEKS**

**EXPECT:**

- Drilling will typically be during daytime hours, with one exception
- The exception: For 1-2 days during this phase, construction will have to be done continuously (24 hours a day) while installing well casings If work is halted while installing the casings, the drilled borehole could collapse, causing major delays
- Truck traffic will be low during this phase (5 - 7 pickups daily and one large truck daily to haul away soil)
- Near the end of this phase, the drill rig and pipe trailer will be moved out and taken to another monitoring well installation site

## PHASE 4

**Install well pumps**
**Complete top of well (to be flush with the ground surface)**
**Clean up work site**
**Restore sidewalks and streets to original condition**
**Demobilize (Remove equipment and leave)**

**DURATION: 1 - 2 WEEKS**

**EXPECT:**

- Pumps will be installed in the wells and tested
- Well heads will be constructed to be flush with the ground surface
- Pump rigs will be removed at the end of this phase
- Streets and sidewalks will be restored to their original condition
- Any closed sidewalks and street parking will be opened back up for normal use
- Water tanks will remain in the area for up to 2 weeks

## PHASE 5

**Water sampling and waiting period**

**DURATION: Initially several times a month for one month and then quarterly**

**EXPECT:**

- There will be very little noticeable activity at the new well site
- LADWP labs will be collecting and testing samples of water extracted from the new wells
- Sampling takes a few hours to complete
- Sampling team consists of one to three sampling technicians in a marked LADWP vehicle
- The newest technology will minimize any impacts to the area
- If you have questions about the project, please feel free to contact Kim Hughes at (213) 367-4417 in our Community Relations Office and she can assist in getting answers to any questions, needs or problems.

***Thank you for your patience and understanding.***
***LADWP is committed to public health and safety.***

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Los Angeles Department of Water & Power

## ESTUDIO DE MEJORAMIENTO DEL SISTEMA DE AGUAS SUBTERRÁNEAS

# PERFORACIÓN DE POZOS DE CONTROL

Durante los próximos años se perforarán y construirán aproximadamente 26 pozos de control nuevos en el Valle de San Fernando, como parte de un programa más amplio del LADWP para limpiar y utilizar agua subterránea valiosa, pero contaminada en la cuenca de agua subterránea de San Fernando.

Controlar esa agua subterránea es el primer paso fundamental del proceso de limpieza. El LADWP obtendrá muestras del agua subterránea durante varios años. Dichas muestras se analizarán en laboratorios y los resultados guiarán a los ingenieros y científicos en la selección de los mejores sistemas de tratamiento de agua posibles de usar.

Los pozos de control se instalarán en todo el Valle de San Fernando, muchos en vecindarios residenciales. Esta hoja de datos se preparó para informar a los residentes sobre lo que ocurrirá durante el proceso de construcción.

## PASOS IMPORTANTES DE LA CONSTRUCCIÓN DEL POZO

### FASE 1

**Movilizar (configuración de la obra)**
**Perforar e instalar la tubería conductora (externa) del pozo**
**Instalar el equipo de perforación y demás maquinaria**

**DURACIÓN: 2 semanas**

**QUÉ OCURRIRÁ:**

Se instalarán letreros de tránsito y estacionamiento
- Se instalará el equipo de perforación que permanecerá durante 8 semanas
- Varios camiones grandes traerán tanques de agua y depósitos de almacenamiento
- Es posible que se cierren secciones de la acera para seguridad del público y permanezcan cerradas durante unas 10 – 11 semanas
- Puede que durante el mismo período algunos estacionamientos de calle no estén disponibles
- No se interrumpirá ningún servicio público ni subestructuras durante ninguna fase del proceso de perforación
- Se instalarán barreras de sonido en el lugar
- El capataz de la obra estará disponible para conversar con los vecinos y responder sus preguntas
- Durante esta fase el tránsito de camiones debiera ser relativamente poco

### FASE 2

**Perforar el orificio piloto**
**Obtener muestras de agua**

**DURACIÓN: 2 SEMANAS**

**QUÉ OCURRIRÁ:**

- La perforación se realizará típicamente durante el día
- Se minimizará el ruido usando silenciadores y equipo motorizado silencioso en la medida de lo posible. Puede que también se use otro tipo de equipo amortiguador del sonido
- Algunas entradas de vehículos podrían bloquearse durante breves períodos, pero el capataz de la obra ayudará a los residentes con el acceso
- En esta etapa la perforación requiere la potencia de generadores para trabajo pesado
- En la perforación se usarán algunos martinetes u otro equipo de martillar por períodos breves (minutos)
- El contratista guardará el equipo importante en el área de almacenamiento cercana, pero no en el vecindario propiamente tal
- A pesar de que es poco probable que se produzca polvo, el contratista deberá mantener la obra limpia
- Los empleados, generalmente en camionetas, ingresarán y saldrán del vecindario diariamente unas 10 veces (más o menos)

## FASE 3

**Ensanchar del orificio a un diámetro más grande**
**Construir el pozo**
**Preparar (limpiar) el pozo**

**DURACIÓN: 2 - 4 SEMANAS**

**QUÉ OCURRIRÁ:**

- La perforación se realizará durante el día, con una sola excepción
- Excepción: Durante 1-2 días de esta fase, la construcción deberá realizarse en forma continua (24 horas al día) mientras se instalan los tubos del pozo
- Si el trabajo se detiene durante la instalación de los tubos, el orificio perforado podría colapsar causando retrasos importantes
- El tránsito de camiones será lento durante esta fase (5 - 7 camionetas y un camión grande diariamente para transportar la tierra)
- Hacia el término de esta fase, el equipo de perforación y el remolque de tubos serán retirados y llevados a otro sitio de instalación del pozo de control

## FASE 4

**Instalar bombas en el pozo**
**Completar la parte superior del pozo (para que quede a nivel del suelo)**

**Limpiar la obra**
**Devolver las aceras y calles a su estado original**
**Desmovilizar (retirar el equipo e irse)**
**DURACIÓN: 1 - 2 SEMANAS**

**QUÉ OCURRIRÁ:**

- Se instalarán y probarán las bombas en los pozos
- Se construirán bocas de pozos que queden a nivel del suelo
- Al final de esta fase se retirarán las plataformas de las bombas
- Se devolverán las calles y aceras a su estado original
- Toda acera y estacionamiento de calle cerrado se abrirá para su uso normal
- Los tanques de agua permanecerán en área hasta 2 semanas

## FASE 5

**Obtención de muestras de agua y período de espera**

**DURACIÓN: INICIALMENTE VARIAS VECES AL MES DURANTE UN MES Y LUEGO TRIMESTRALMENTE**

**QUÉ OCURRIRÁ:**

- Habrá muy poca actividad visible en el sitio del pozo nuevo
- Los laboratorios del LADWP obtendrán y probarán las muestras de agua extraída de los pozos nuevos
- La obtención de muestras tarda unas cuantas horas en completarse
- El equipo de muestreo está compuesto por uno a tres técnicos en un vehículo con identificación del LADWP
- La tecnología de última generación minimizará el impacto en el área
- Si tiene preguntas acerca del proyecto, no dude en comunicarse con Kim Hughes al (213) 367-4417 en nuestra Oficina de relaciones con la comunidad quien podrá asistirle respondiendo sus preguntas, necesidades o problemas.

***Agradecemos su paciencia y comprensión.***
***El LADWP tiene el compromiso de cuidar la salud y seguridad públicas.***

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Los Angeles Department of Water & Power

# GROUNDWATER SYSTEM IMPROVEMENT STUDY

# QUESTIONS AND ANSWERS: GROUNDWATER MONITORING WELLS

### What are the annual City of Los Angeles water rights from the San Fernando Groundwater Basin (SFB)?

Pursuant to the 1979 California Superior Court Judgment, the City of Los Angeles has the right to extract approximately 87,000 acre-feet per year of groundwater from the San Fernando Groundwater Basin. This is enough to serve 174,000 households annually.

### What is the current amount of water being supplied by the SFB and what percentage of the City's total water supply is that amount?

During the recent Water Year of October 2009 through September 2010, LADWP produced nearly 53,000 acre feet of groundwater from the San Fernando Basin; nearly 40% below its Court adjudicated water right.

LADWP also produces groundwater from two other regional groundwater basins. In total, approximately 11% of the City's water supply is obtained from the local groundwater basins.

### What contaminants have polluted the groundwater and what areas are affected?

Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE), were widely used in the 1940s for dry cleaning and machinery degreasing. Disposal of these solvents was not well regulated at that time and a large number of facilities have released these volatile organic compounds (VOCs) throughout the eastern San Fernando Valley. Over time, improper disposal of these contaminants resulted in the large plume of VOC-contaminated groundwater that extends from the North Hollywood area to the southeast for a distance of about ten miles. Contamination has also affected other areas north of the large groundwater plume, although the extent is not fully known.

In the 1980s, these contaminants were detected in the groundwater at concentration levels which exceed their regulatory limits for drinking water. Other notable contaminants also detected in the groundwater include carbon tetrachloride, trichloroaethane (TCA), chromium, and perchlorate. Nitrate has also affected the groundwater in localized areas as a result of past agricultural activity and the use of septic systems that were not connected to the municipal sewer system.

The contaminants suspected in the aquifer are chemical in nature and drilling of the monitoring wells will not propose any exposure to the community.

### What are the health impacts of the contaminants in the plume?

Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE) are known to have both carcinogenic and non-carcinogenic human health affects.

### What has LADWP done to address the contamination issue?

In 1983, LADWP developed a groundwater quality management plan which called for the deactivation of many supply water wells owned by the City and expanded its groundwater sampling program to closely monitoring the occurrence of contamination. Currently, 54 supply wells are deactivated of the City's 115 existing supply wells in the San Fernando Basin.

In 1989, LADWP worked in conjunction with the United States Environmental Protection Agency (USEPA) to construct the North Hollywood Operable Unit. This facility is designed to provide treatment for groundwater extracted from the highly concentrated region of the VOC-contaminate plume. A $20 million investigation funded by USEPA was completed which installed 89 monitoring wells and developed a database, GIS system, and regional groundwater flow model which is regularly updated and currently in use for analyzing the groundwater around the City's major well fields.

In 2010, LADWP installed groundwater treatment units at the Tujunga Wellfield which has allowed the reactivation two of the City's supply wells. LADWP is studying other treatment processes for further implementation and recovery of the City's groundwater supply wells.

### What is the cost of the monitoring well and water testing program and how is it being funded?

The cost of constructing the new monitoring wells is approximately $13 million, which is included in the current LADWP budget. The cost of the approximately 2-year testing program will be $4 million, also included in the LADWP budget.

All efforts under this program are being conducted in accordance with USEPA policy guidance to ensure cost recovery for this program from responsible parties is available to the City.

### Can LADWP use other existing monitoring wells for this program instead of constructing new ones?

LADWP is relying on the existing network of monitoring wells for this program. The additional monitoring wells proposed under this program are needed to supplement the existing network in areas where groundwater data does not currently exist but are needed to fully determine the extent of groundwater contamination around the City's well fields.

### What are the factors used in determining where the monitoring wells will be located?

Well locations are sited to optimize monitoring along the water flow path to the City's water supply wells and are subject to the approval by the California Department of Public Health. Factors include locations of known or suspected contaminant releases, water quality data, hydrogeologic information, groundwater flow modeling and areas where groundwater data does not exist.

### How long will the drilling and installation of each well take and what is the overall duration for drilling all 26 wells?

The duration required at each location can vary, but it is estimated that three months will be required to construct each well. The duration to complete the entire program of 26 wells is estimated to take approximately 1 ½ - 3 years assuming multiple locations are under construction at the same time and depending on funding levels.

### What is the duration of the water monitoring and testing program once the wells are completed and how often will the water be tested?

After more frequent testing for the first month, testing will be done quarterly for each well for a period of two years.

### What is LADWP doing to coordinate with other City Departments and other agencies and the private sector projects in the area?

As with all LADWP construction projects, other City Departments and public agencies have been contacted to identify other nearby projects that will be in construction at the same time. The LADWP project team will ensure that mitigation measures of the various projects are compatible and minimize disruption or inconvenience to the neighboring community.

### What procedures are in place to coordinate with emergency services agencies, local or state, should the need arise during the program duration?

LADWP requires all of its contractors to have a project safety plan in place for responding to on-site safety incidents. Such plans will identify the contact information for all agencies that are likely to respond during an emergency. In the event of an incident, the contractor will immediately secure the work site and any impacted areas and contact the appropriate agencies for response. In addition, LADWP is also immediately notified of any onsite incident and will provide any resources to supplement the contractor response, where needed.

### How will LADWP and its contractor minimize impacts to the community from the program work?

- Suppress noise impact by use of sound barriers
- Minimize ground vibrations by utilizing rotary drilling methods
- Manage exhaust and diesel fuel fumes dispersion and dissipation by utilizing electric power when possible and minimizing engine idle times
- Contact information for on-site construction supervisor and dedicated LADWP informational line
- On-site security during non-working hours
- Expanded work hours and accelerated scheduling to reduce the overall duration of work at each site and to reduce costs
- Identify and facilitate any individual needs for special access.
- Project update posted weekly on website and elsewhere

### How does the community access information about the project?

The LADWP website www.LADWP.com will have complete information regarding the project including background, history and ongoing construction and operation updates. Contact information for the Engineering Project Manager, Construction Superintendent and/or onsite Construction Supervisor will be posted on the website and a 24-hour project hotline is available at (213) 367-0107. You may also contact Kim Hughes in our Public Affairs Office at (213) 367-4417.

Additionally, in accordance with the USEPA Community Plan guidelines, a central repository of complete program information will be established at an area library. There is currently an official USEPA approved repository site located at the Burbank City Library and information will be available at the Panorama City Public Library.

### What are the other partner agencies and contractors that LADWP is working with on this program and what are their roles?

**LADWP** – Program lead
**Brown & Caldwell, LLP** – Field logistics, planning
**Weston Solutions, Inc.** – On-site construction support
**Army Corps of Engineers** – Well construction support
**California Department of Public Health** – Regulatory oversight of health and safety issues
**U.S. Environmental Protection Agency** – Federal Superfund oversight of contamination remediation
**L.A. Department of Transportation** – Review and approval of traffic plan design and implementation.
**L.A. Department of Public Works** – Permit approvals.

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Los Angeles Department of Water & Power

## ESTUDIO DE MEJORAMIENTO DEL SISTEMA DE AGUAS SUBTERRÁNEAS

# PREGUNTAS Y RESPUESTAS: POZOS PARA EL CONTROL DE AGUAS SUBTERRÁNEAS

## PREGUNTAS SOBRE EL PROGRAMA

**¿Cuáles son los derechos de agua anuales de la Ciudad de Los Ángeles en la cuenca de agua subterránea de San Fernando y cuántos hogares podrían proveerse anualmente con dicha cantidad?**

Según el dictamen de 1979 de la Corte Superior de California, la Ciudad de Los Ángeles tiene derecho a extraer 87,000 acre pies por año de agua subterránea de la cuenca de agua subterránea de San Fernando. Esto es suficiente para proveer a 174,000 hogares anualmente.

**¿Cuál es la cantidad actual de agua subterránea suministrada por la cuenca de San Fernando y a qué porcentaje del total del suministro de agua de la ciudad equivale dicha cantidad?**

Durante el año hídrico entre octubre de 2009 y septiembre de 2010, el LADWP produjo casi 53,000 acre pies de agua subterránea de la cuenca de San Fernando; casi 40% menos que el derecho de agua adjudicado.

El LADWP también produce agua subterránea de otras dos cuencas regionales. En total, aproximadamente el 11% del suministro de agua de la ciudad se obtiene de las cuencas de agua subterránea locales.

**¿Qué sustancias han contaminado el agua subterránea y qué áreas han sido afectadas?**

En la década de 1940 se utilizaron ampliamente disolventes clorados tales como tricloroetileno (TCE) y tetracloroetileno (PCE) para el lavado en seco y el desengrasado de maquinaria. En esos años, el desecho de estos disolventes no estaba bien regulado y una gran cantidad de instalaciones desecharon estos componentes orgánicos volátiles por toda el área oriental del Valle de San Fernando. Con el tiempo, el desecho indebido de estos contaminantes produjo un gran penacho de agua subterránea contaminada por compuestos orgánicos volátiles que se extiende desde el área de North Hollywood hacia el sureste por una distancia de aproximadamente diez millas. La contaminación también ha afectado otras áreas al norte del gran penacho de agua subterránea, aunque la extensión no se conoce cabalmente.

En la década de 1980, se detectaron estos contaminantes en el agua subterránea en niveles que exceden los límites reglamentados para el agua potable. Otros contaminantes de importancia también detectados en el agua subterránea incluyen tetracloruro de carbono, tricloroetano (TCA), cromo, y perclorato. El nitrato también ha afectado el agua subterránea en áreas acotadas debido a la actividad agrícola pasada y el uso de sistemas sépticos que no estaban conectados al sistema de alcantarillado municipal.

Los contaminantes que se creen presentes en el acuífero son de carácter químico y la perforación de pozos de control no supone ningún riesgo para la comunidad.

**¿Cuáles son los impactos sobre la salud de los contaminantes en el penacho?**

Se sabe que los disolventes clorados tales como tricloroetileno (TCE) y tetracloroetileno (PCE) tienen tanto efectos cancerígenos como no cancerígenos sobre la salud humana.

**¿Qué ha hecho el LADWP en el pasado para abordar el problema de la contaminación y qué está haciendo ahora?**

En 1983, el LADWP desarrolló un plan de gestión de calidad del agua subterránea que significó la desactivación de varios pozos de suministro de agua pertenecientes a la ciudad y amplió su programa de recolección de muestras de agua subterránea para controlar de cerca la presencia de contaminación. Actualmente se han desactivado 54 de los 115 pozos de suministro de agua de la ciudad existentes en la cuenca de San Fernando.

En 1989, el LADWP trabajó en conjunto con la Agencia de Protección Ambiental de EE. UU. (USEPA) para construir la Unidad Operable de North Hollywood. Esta instalación está diseñada para tratar el agua subterránea extraída de la región altamente concentrada del penacho contaminado con componentes orgánicos volátiles. La USEPA financió una investigación por $20 millones que instaló 89 pozos de control y elaboró una base de datos, sistema GIS, y un modelo de flujo de agua subterránea regional que se actualiza regularmente y está actualmente en uso para analizar el agua subterránea alrededor de los principales campos de pozos de la ciudad.

En 2010, el LADWP instaló unidades de tratamiento de agua subterránea en el campo de pozos de Tujunga que ha permitido la reactivación de dos pozos de agua de la ciudad. El LADWP está estudiando otros procesos de tratamiento para la implementación y recuperación de más pozos de suministro de agua subterránea de la ciudad.

**¿Cuál es el costo del programa de control de pozos y prueba de agua, y cómo se financia?**

El costo de construir los nuevos pozos de control es de aproximadamente $13 millones, lo que está incluido en el presupuesto actual del LADWP. El costo del programa de prueba, que durará aproximadamente 2 años, será de $4 millones, lo que también está incluido en el presupuesto actual del LADWP.

Todos los esfuerzos de este programa se están realizando bajo la guía de las políticas de la USEPA para asegurar que los entes responsables puedan reembolsar el costo de este programa a la ciudad.

**¿Puede el LADWP usar otros pozos de control existentes para este programa en vez de construir nuevos?**

El LADWP ya está utilizando la red existente de pozos de control para este programa. Los pozos de control adicionales propuestos según este programa se necesitan para complementar la red actual en áreas donde no existen datos sobre el agua subterránea y dichos datos son necesarios para determinar la extensión de la contaminación del agua alrededor de los campos de pozos de la ciudad.

Los Angeles Department of Water & Power

## ESTUDIO DE MEJORAMIENTO DEL SISTEMA DE AGUAS SUBTERRÁNEAS

# HOJA DE DATOS: PROYECTO DE PERFORACIÓN DE POZOS

El Departamento de Agua y Energía de Los Ángeles (LADWP) construirá un pozo de control de aguas subterráneas en su área. La construcción empezará a principios de enero del 2012 y durará aproximadamete tres meses.

El pozo de control se ubicará en Wentworth Street al oeste de Stanwin Avenue. La construcción implicará la perforación de un orificio pequeño hasta una profundidad de 1,300 pies y la instalación por el mismo de varios tubos de PVC de diámetro pequeño. El orificio se rellenará y cubrirá con una tapa de mantenimiento de hierro fundido a nivel del suelo.

Entre el equipo que se usará en este proceso se incluyen un equipo de perforación, camiones de apoyo y recipientes de almacenamiento ubicados en las cercanías del pozo de control. Se trabajará normalmente desde las 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes, con cierto trabajo de construcción que debe llevarse a cabo de noche durante aproximadamente dos días con el fin de estabilizar el pozo para instalar tubos de sitio.

Para la seguridad del público, se cerrará la acera cerca del equipo de perforación. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

El trabajo de construcción no afectará su servicio de agua ni electricidad, a menos que circunstancias imprevistas exijan la interrupción del servicio.

## TRÁNSITO Y ACCESO

Durante la duración del proyecto Wentworth Street se cerrará en el carril hacia el oeste desde Stanwin Avenue hasta Woodale Avenue. Se restringirá el estacionamiento en la calle en Wentworth Street y en Stanwin Avenue donde lo indiquen los letreros. Por favor obedezca todos los desvíos para peatones y tránsito que se proporcionan para su seguridad.

El LADWP coordinará las actividades de construcción para facilitar las necesidades de entrada y salida de las propiedades de los vecinos.

## ¿POR QUÉ HACEMOS ESTO?

Este proyecto es uno de los 26 pozos de control de aguas subterráneas que el LADWP construirá en diversas áreas del este del Valle de San Fernando. Los pozos se usarán con el fin de reunir información para un completo estudio de mejoramiento del sistema de aguas subterráneas que pretende mejorar el uso por parte del LADWP de este suministro de agua local en la cuenca de agua subterránea de San Fernando.

Las muestras se obtendrán de los pozos de control para analizar los patrones de contaminación en el suministro de agua subterránea y determinar la naturaleza y alcance de toda contaminación que pudiera haber. La ubicación de cada pozo se seleccionó para medir la calidad del agua junto con los cursos específicos del flujo subterráneo que conducen hacia los pozos de suministro de agua en el campo de pozos de LADWP en las inmediaciones.

Cabe destacar que los pozos de control planificados se usarán para efectuar pruebas de agua solamente no para suministrar agua a los clientes del LADWP. Las muestras de agua se obtendrán trimestralmente de los pozos.

Este estudio para el mejoramiento del sistema de aguas subterráneas permitirá llevar a cabo proyectos tendientes a eliminar la contaminación, mejorar la captura de agua de lluvia y mejorar el uso del suministro de agua local y diversificar nuestras fuentes de agua que puedan usarse tras un terremoto u otro tipo desastre. No tenemos planeado llevar acabo estos estudios futuros en su vecindario. Este programa también reducirá nuestra dependencia de agua importada de alto costo y se traducirá en menores costos para los clientes del LADWP. Esta estrategia tiene por objeto garantizar un suministro de agua seguro, estable, económico y sustentable que satisfará las necesidades futuras de la ciudad.

## ¿NECESITA MÁS INFORMACIÓN?

Si tiene preguntas acerca del proyecto, no dude en comunicarse con Kim Hughes al (213) 367-4417 en nuestra Oficina de relaciones con la comunidad quien podrá asistirle respondiendo sus preguntas, necesidades o problemas.

12/2011

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

## Groundwater Monitoring Well Installation

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

[Location]

**Construction will begin as early as [DATE].**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

## Greenbush Ave. al sur de Bessemer St.

### Construcción comenzará tan pronto como LUNES, el 21 de OCTUBRE de 2013.

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas -- incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Department of Water and Power the City of Los Angeles

ANTONIO R. VILLARAIGOSA
Mayor

Commission
THOMAS S. SAYLES, President
ERIC HOLOMAN, Vice President
RICHARD F. MOSS
CHRISTINA E. NOONAN
JONATHAN PARFREY
BARBARA E. MOSCHOS, Secretary

RONALD O. NICHOLS
General Manager

July 8, 2011

Subject: City of Los Angeles Department of Water and Power Water Monitoring Well Drilling in Your Neighborhood

As you probably have heard, the City of Los Angeles Department of Water and Power (LADWP) is going to initiate a project in your immediate neighborhood. The project will take several weeks to complete and entails bringing in a large truck-mounted drill rig and drilling down to the water table. The well in your immediate neighborhood will be only used to extract samples for laboratory testing. It will not be used for drinking water. That laboratory analysis will guide our engineers in designing the proper treatment system to remove the pollutants from the groundwater.

We had planned to begin this project in the near future, but the timing of the project is being pushed back in order that we might review the project and see if there are ways to reduce costs, which would save the LADWP and our ratepayers money.

It is our desire in the near future, to give you and your immediate neighbors more information and to answer your questions.

We will invite you to join my colleagues and your neighbors to hear more about the upcoming work. You will receive a lot of information at the meeting: schedule, the type of construction including some work at night, access and street parking, and who you can contact throughout the temporary construction period.

Again, we will keep you informed and will let you know when we plan on holding the meeting with you and your neighbors. Should you have any questions now about the project, you may call our Public Affairs Office at (213) 367-1361.

Thank you for your cooperation,

Mark J. Aldrian
Manager of Groundwater Management Group

cc: Mr. Jose Conejo, Chief of Staff, Sixth Council District
Ms. Emily Williams, Deputy Chief of Staff, Sixth Council District
Ms. Lorena Bernal, Field Deputy, Sixth Council District

**Water and Power Conservation ...a way of life**

111 North Hope Street, Los Angeles, California 90012-2607 *Mailing address:* Box 51111, Los Angeles 90051-5700
*Telephone:* (213) 367-4211 *Cable address:* DEWAPOLA

Recyclable and made from recycled waste.

8 de julio, 2011

Tema: Departamento de Agua y Energía de Los Ángeles
Perforación de pozo en su vecindario para supervisar la calidad del agua

Como se habrá enterado, el Departamento de Agua y Energía de Los Ángeles (LADWP) iniciará un proyecto en su vecindario. El proyecto tardará varias semanas en completarse e implica instalar un equipo de perforación grande montado en camión a fin de perforar hasta alcanzar la capa freática. El pozo en su vecindario se usará solamente para extraer muestras a fin de realizar pruebas en el laboratorio. No se usará para agua potable. El análisis de laboratorio permitirá a nuestros ingenieros diseñar un sistema de tratamiento que permita eliminar apropiadamente los contaminantes de las fuentes subterráneas.

Habíamos planificado iniciar este proyecto pronto, pero hemos decidido postergarlo para que podamos revisarlo nuevamente y ver si hay formas de reducir costos que permitan ahorrar dinero al LADWP y a nuestros clientes.

Nuestro deseo es proporcionarle muy pronto a usted y a los vecinos más información al respecto, así como responder sus preguntas.

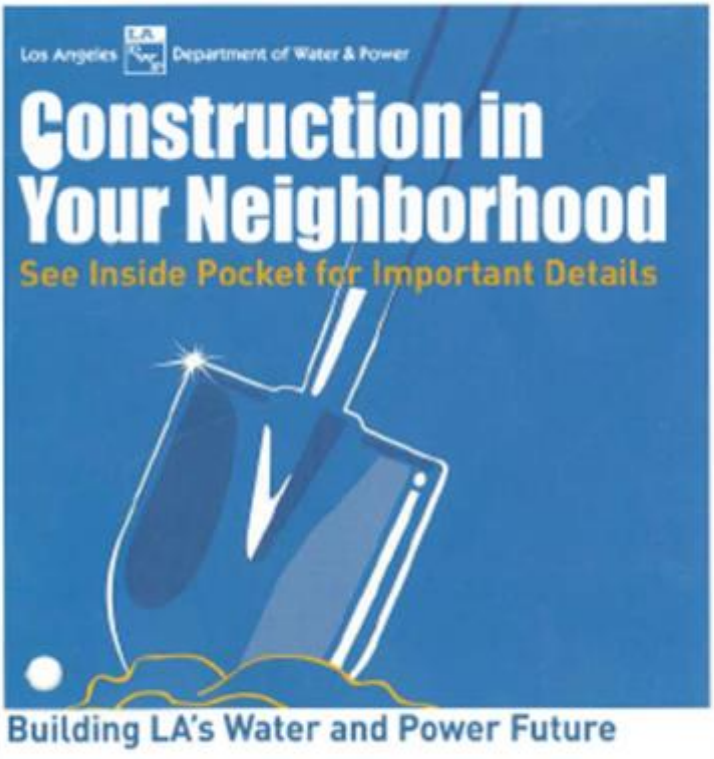
La invitaremos a reunirse con mis colegas y sus vecinos a fin de informarle más sobre el trabajo que se avecina. En la reunión recibirá abundante información sobre el calendario, el tipo de construcción, incluyendo trabajo que pueda realizarse de noche, acceso y estacionamiento, y con quién debe comunicarse durante el período de construcción provisoria.

Reiteramos que la mantendremos informada y le haremos saber el momento en que nos reuniremos con usted y sus vecinos. Si en este instante tiene preguntas sobre el proyecto, comuníquese con nuestra Oficina de Asuntos Públicos llamando al (213) 367-1361.

Gracias por su cooperación,

Mark J. Aldrian
Gerente del Grupo de Administración de Aguas Subterráneas

cc: Sr. José Conejo, Director de Gabinete, Sexto Distrito Consejal
Sra. Emily Williams, Subdirectora de Gabinete, Sexto Distrito Consejal
Sra. Lorena Bernal, Delegada en Terreno, Sexto Distrito Consejal


Los Angeles Department of Water & Power
Construction in Your Neighborhood
See Inside Pocket for Important Details
Building LA's Water and Power Future

3. Template FAQs (English and Spanish)

Los Angeles Department of Water & Power

# Groundwater Monitoring Wells

## Groundwater System Improvement Study
## Questions and Answers

**What are the annual City of Los Angeles water rights from the San Fernando Groundwater Basin (SFB)?**
Pursuant to the 1979 California Superior Court Judgment, the City of Los Angeles has the right to extract approximately 87,000 acre-feet per year of groundwater from the San Fernando Groundwater Basin. This is enough to serve 174,000 households annually.

**What is the current amount of water being supplied by the SFB and what percentage of the City's total water supply is that amount?**
During the recent Water Year of October 2009 through September 2010, LADWP produced nearly 53,000 acre feet of groundwater from the San Fernando Basin; nearly 40% below its Court adjudicated water right.

LADWP also produces groundwater from two other regional groundwater basins. In total, approximately 11% of the City's water supply is obtained from the local groundwater basins.

**What contaminants have polluted the groundwater and what areas are affected?**
Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE), were widely used in the 1940s for dry cleaning and machinery degreasing. Disposal of these solvents was not well regulated at that time and a large number of facilities have released these volatile organic compounds (VOCs) throughout the eastern San Fernando Valley. Over time, improper disposal of these contaminants resulted in the large plume of VOC-contaminated groundwater that extends from the North Hollywood area to the southeast for a distance of about ten miles. Contamination has also affected other areas north of the large groundwater plume, although the extent is not fully known.

In the 1980s, these contaminants were detected in the groundwater at concentration levels which exceed their regulatory limits for drinking water. Other notable contaminants also detected in the groundwater include carbon tetrachloride, trichloroaethane (TCA), chromium, and perchlorate. Nitrate has also affected the groundwater in localized areas as a result of past agricultural activity and the use of septic systems that were not connected to the municipal sewer system.

The contaminants suspected in the aquifer are chemical in nature and the drilling of the monitoring wells will not propose any exposure to the community.

**What are the health impacts of the contaminants in the plume?**
Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE) are known to have both carcinogenic and non-carcinogenic human health affects.

**What has LADWP done to address the contamination issue?**
In 1983, LADWP developed a groundwater quality management plan which called for the deactivation of many supply water wells owned by the City and expanded its groundwater sampling program to closely monitoring the occurrence of contamination. Currently, 54 supply wells are deactivated of the City's 115 existing supply wells in the San Fernando Basin.

In 1989, LADWP worked in conjunction with the United States Environmental Protection Agency (USEPA) to construct the North Hollywood Operable Unit. This facility is designed to provide treatment for groundwater extracted from the highly concentrated region of the VOC-contaminate plume. A $20 million investigation funded by USEPA was completed which installed 89 monitoring wells and developed a database, GIS system, and regional groundwater flow model which is regularly updated and currently in use for analyzing the groundwater around the City's major well fields.

In 2010, LADWP installed groundwater treatment units at the Tujunga Wellfield which has allowed the reactivation two of the City's supply wells. LADWP is studying other treatment processes for further implementation and recovery of the City's groundwater supply wells.

**What is the cost of the monitoring well and water testing program and how is it being funded?**
The cost of constructing the new monitoring wells is approximately $13 million, which is included in the current LADWP budget. The cost of the approximately 2-year testing program will be $4 million, also included in the LADWP budget.

All efforts under this program are being conducted in accordance with USEPA policy guidance to ensure cost recovery for this program from responsible parties is available to the City.

**Can LADWP use other existing monitoring wells for this program instead of constructing new ones?**
LADWP is relying on the existing network of monitoring wells for this program. The additional monitoring wells proposed under this program are needed to supplement the existing network in areas where groundwater data does not currently exist but are needed to fully determine the extent of groundwater contamination around the City's well fields.

**What are the factors used in determining where the monitoring wells will be located?**
Well locations are sited to optimize monitoring along the water flow path to the City's water supply wells and are subject to the approval by the California Department of Public Health. Factors include locations of known or suspected contaminant releases, water quality data, hydrogeologic information, groundwater flow modeling and areas where groundwater data does not exist.

**How long will the drilling and installation of each well take and what is the overall duration for drilling all 26 wells?**
The duration required at each location can vary, but it is estimated that three months will be required to construct each well. The duration to complete the entire program of 26 wells is estimated to take approximately 1 ½ - 3 years assuming multiple locations are under construction at the same time and depending on funding levels.

**What is the duration of the water monitoring and testing program once the wells are completed and how often will the water be tested?**
After more frequent testing for the first month, testing will be done quarterly for each well for a period of two years.

**What is LADWP doing to coordinate with other City Departments and other agencies and the private sector projects in the area?**
As with all LADWP construction projects, other City Departments and public agencies have been contacted to identify other nearby projects that will be in construction at the same time. The LADWP project team will ensure that mitigation measures of the various projects are compatible and minimize disruption or inconvenience to the neighboring community.

**What procedures are in place to coordinate with emergency services agencies, local or state, should the need arise during the program duration?**
LADWP requires all of its contractors to have a project safety plan in place for responding to on-site safety incidents. Such plans will identify the contact information for all agencies that are likely to respond during an emergency. In the event of an incident, the contractor will immediately secure the work site and any impacted areas and contact the appropriate agencies for response. In addition, LADWP is also immediately notified of any onsite incident and will provide any resources to supplement the contractor response, where needed.

**How will LADWP and its contractor minimize impacts to the community from the program work?**
- Suppress noise impact by use of sound barriers
- Minimize ground vibrations with rotary drilling methods
- Manage exhaust and diesel fuel fumes dispersion and dissipation by utilizing electric power when possible and minimizing engine idle times
- Contact information for on-site construction supervisor and dedicated LADWP informational line
- On-site security during non-working hours
- Expanded work hours and accelerated scheduling to reduce the overall duration of work at each site and to reduce costs
- Address individual needs for special access
- Project update posted weekly on website and elsewhere

**How does the community access information about the project?**
Visit www.LADWP.com for complete information regarding the project including background, history and ongoing construction and operation updates. Contact information for the Engineering Project Manager, Construction Superintendent and/or onsite Construction Supervisor will be posted on the website. You may also contact the Community Relations Office at (213) 367-1361.

Additionally, in accordance with the USEPA Community Plan guidelines, a central repository of complete program information will be established at an area library. There is currently an official USEPA approved repository site located at the Burbank City Library and information will be available at the Panorama City Public Library.

**What are the other partner agencies and contractors that LADWP is working with on this program and what are their roles?**
**LADWP** – Program lead
**Brown & Caldwell, LLP** – Field logistics, planning
**Weston Solutions, Inc.** – On-site construction support
**Army Corps of Engineers** – Well construction support
**California Department of Public Health** – Regulatory oversight of health and safety issues
**U.S. Environmental Protection Agency** – Federal Superfund oversight of contamination remediation
**L.A. Department of Transportation** – Review and approval of traffic plan design and implementation.
**L.A. Department of Public Works** – Permit approvals.

04/2013

Los Angeles Department of Water & Power

# Groundwater Monitoring Wells

## Groundwater System Improvement Study
## Questions and Answers

### What contaminants have polluted the groundwater and what areas are affected?

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In 1989, LADWP worked in conjunction with the United States Environmental Protection Agency (USEPA) to construct the North Hollywood Operable Unit. This facility is designed to provide containment and removal of the highly concentrated region of the VOC contaminant plume. A $20 million investigation funded by USEPA was completed which installed 89 monitoring wells and developed a database, GIS system, and regional groundwater flow model which is regularly updated and currently in use for analyzing the groundwater around the City's major well fields.

In 2010, LADWP installed groundwater treatment units on two of the City's water supply wells at the Tujunga Wellfield to provide some containment and removal of groundwater contaminants.

LADWP is studying other treatment processes for implementing, by Year 2021, a groundwater remediation complex that will provide comprehensive removal of the contaminants which have severely impaired the San Fernando Groundwater Basin.

### What is the cost of the monitoring wells and the water quality testing program and how is it being funded?

The cost of constructing the new monitoring wells is approximately $13 million, which is included in the current LADWP budget. The cost of the water quality testing program will be approximately $4 million, also included in the LADWP budget.

All efforts under this program are being conducted in accordance with USEPA policy guidance to ensure cost recovery for this program from responsible parties is available to the City.

### Can LADWP use other existing monitoring wells for this program instead of constructing new ones?

LADWP is relying on the existing network of monitoring wells for this program. The additional monitoring wells proposed under this program are needed to supplement the existing network in areas where groundwater data does not currently exist but are needed to fully determine the extent of groundwater contamination around the City's well fields.

### What are the factors used in determining where the monitoring wells will be located?

Well locations are sited to optimize monitoring along the water flow path to the City's water supply wells and are subject to the approval by the California Department of Public Health. Factors include locations of known or suspected contaminant releases, water quality data, hydrogeologic information, groundwater flow modeling and areas where groundwater data does not exist.

### How long will the drilling and installation of each well take and what is the overall duration for drilling all 26 wells?

The duration required at each location can vary, but it is estimated that three months will be required to construct each well. The entire program of 26 groundwater monitoring wells is estimated to be completed by January 2014, as multiple locations will be under construction at the same time to expedite the completion.

### What is the duration of the groundwater monitoring and water quality testing once the wells are completed, and how often will the water be tested?

Some water quality testing has already been performed using the existing network of more than 70 monitoring wells and LADWP water supply wells. Water quality tests on all of the 26 new wells will be performed by January 2014. LADWP will review the test results with the California Department of Public Health to determine the requirements and frequency for continued water quality testing under this program.

### What is LADWP doing to coordinate with other City Departments and other agencies and the private sector projects in the area?

As with all LADWP construction projects, other City Departments and public agencies have been contacted to identify other nearby projects that will be in construction at the same time. The LADWP project team will ensure that mitigation measures of the various projects are compatible and minimize disruption or inconvenience to the neighboring community.

### What procedures are in place to coordinate with emergency services agencies, local or state, should the need arise during the program duration?

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05/2013

### How will LADWP and its contractor minimize impacts to the community from the program work?

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### How does the community access information about the project?

Visit www.LADWP.com/wells for complete information regarding the project including background, construction updates, and contact information for the Engineering Project Manager, Construction Superintendent and/or onsite Construction Supervisor.

You may also contact the Community Relations Office at (213) 367-1361.

Information is also available at the following locations:
Panorama City Public Library, 14345 Roscoe Blvd, Los Angeles, CA
City of Burbank Public Library, 110 North Glenoaks St, Burbank, CA
City of Glendale Public Library, 222 East Harvard St, Glendale, CA
City of Los Angeles Technical Central Library, 630 West 5th St, Los Angeles, CA

### What are the other partner agencies and contractors that LADWP is working with on this program and what are their roles?

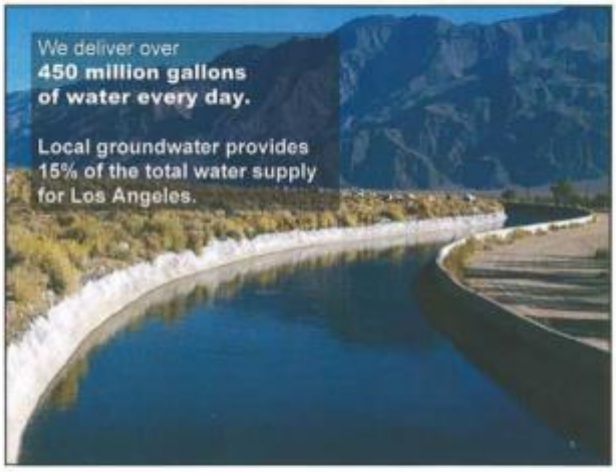
**LADWP** - GSIS Program lead
**Brown & Caldwell** - GSIS Program Consultant and field geology services.
**California Dept of Public Health** - Lead agency for public health and safe drinking water regulations.
**US EPA** - Lead agency for Superfund remedial investigations and groundwater cleanup programs.
**US Army Corps of Engineers** - Well Construction Contract Administrators
**Weston Solutions** - Groundwater consultants for the US Army Corps of Engineers and field geology services.
National Exploration Wells and Pumps - Well drilling construction contractor.
**Other Involved Public Agencies** - LA County Public Health, LA City Council Districts 2, 6, and 7, LA City Public Works, LA City Dept of Transportation, and LA Police Dept.

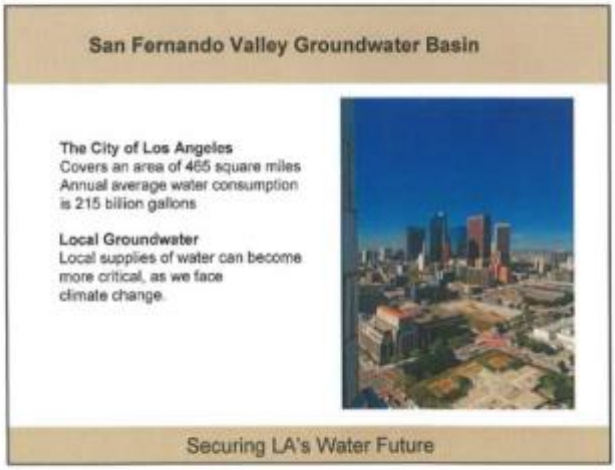
4. Construction Site Sample Banner

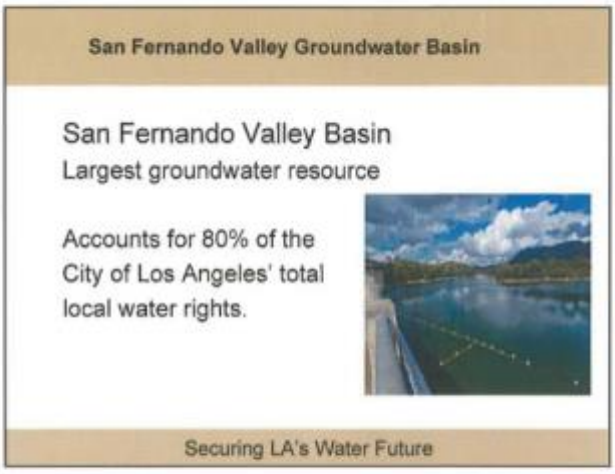
5. Materials for Presentations and Briefings

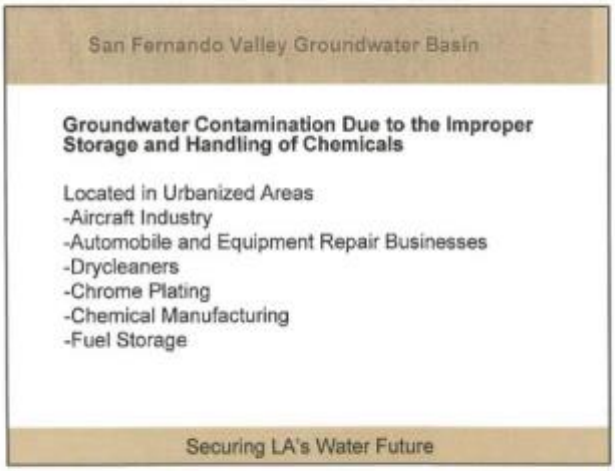
**Community Meetings' PowerPoint Presentation**

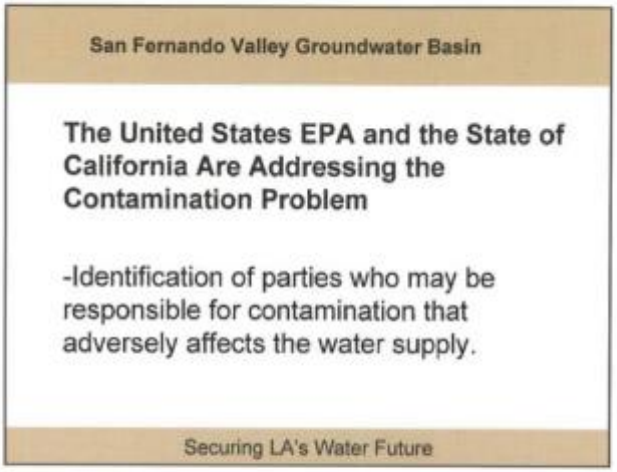
**The following slides provide background information on the reasoning behind the Groundwater System Improvement Study. Additionally, the presentations provided locations for the monitoring wells, construction processes, and durations.**

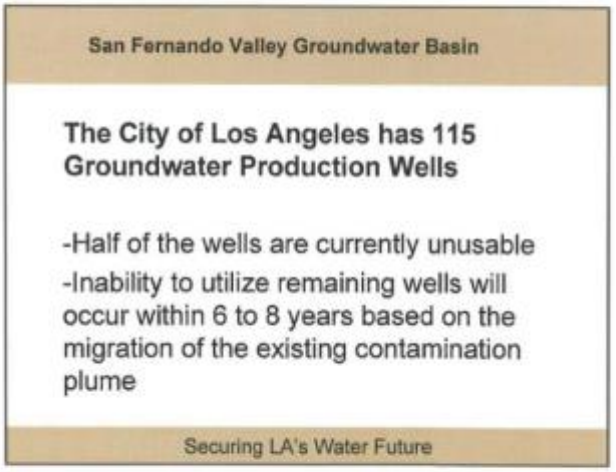


We deliver over
450 million gallons
of water every day.
Local groundwater provides
15% of the total water supply
for Los Angeles.


San Fernando Valley Groundwater Basin
The City of Los Angeles
Covers an area of 465 square miles
Annual average water consumption
is 215 billion gallons
Local Groundwater
Local supplies of water can become
more critical, as we face
climate change.
Securing LA's Water Future


San Fernando Valley Groundwater Basin
San Fernando Valley Basin
Largest groundwater resource
Accounts for 80% of the City of Los Angeles' total local water rights.
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Groundwater Contamination Due to the Improper Storage and Handling of Chemicals
Located in Urbanized Areas
-Aircraft Industry
-Automobile and Equipment Repair Businesses
-Drycleaners
-Chrome Plating
-Chemical Manufacturing
-Fuel Storage
Securing LA's Water Future


San Fernando Valley Groundwater Basin
The United States EPA and the State of California Are Addressing the Contamination Problem
-Identification of parties who may be responsible for contamination that adversely affects the water supply.
Securing LA's Water Future


San Fernando Valley Groundwater Basin
The City of Los Angeles has 115 Groundwater Production Wells
-Half of the wells are currently unusable
-Inability to utilize remaining wells will occur within 6 to 8 years based on the migration of the existing contamination plume
Securing LA's Water Future


**San Fernando Valley Groundwater Basin**

**LADWP Groundwater System Improvement Study (GSIS)**

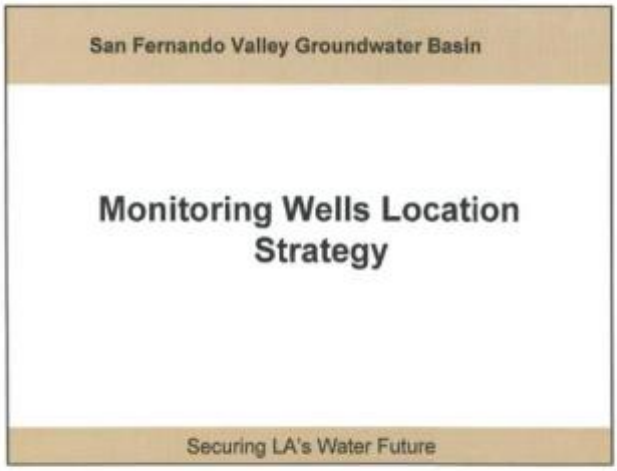
-Part of the LADWP Groundwater Management Program

-Comprehensive Study of groundwater quality and contamination issues

-Evaluation and recommendation of treatment options to maximize useable groundwater supplies

Securing LA's Water Future

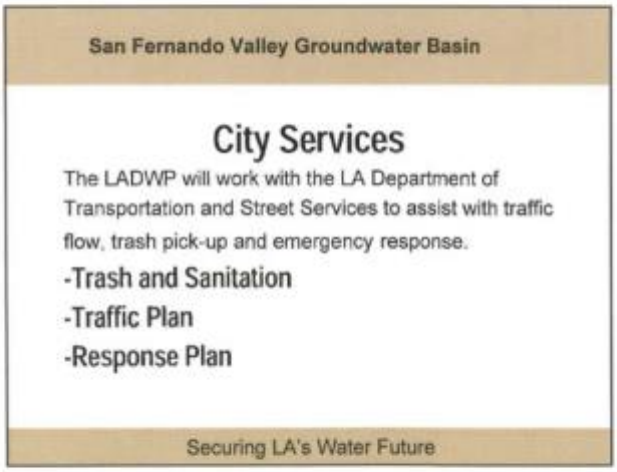

San Fernando Valley Groundwater Basin
Groundwater Monitoring Well Installation
-Installation of 26 new groundwater monitoring wells with depths up to 900 ft.
-Data will be used to track and evaluate contamination
-Develop a comprehensive plan for the groundwater cleanup
-These important wells will be installed over the next 24 months
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Monitoring Wells Location Strategy
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Securing LA's Water Future


San Fernando Valley Groundwater Basin
City Services
The LADWP will work with the LA Department of Transportation and Street Services to assist with traffic flow, trash pick-up and emergency response.
-Trash and Sanitation
-Traffic Plan
-Response Plan
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Major Steps of Well Construction
Phase 1
Mobilize (Set up on work site)
Drill and install conductor (outside) well casing
Set up and drill rig and equipment
Duration: 2 weeks
The drill rig will be set-up and will remain for up to 8 weeks
Traffic and parking signs and limitations installed
Sound barrier put into place
Securing LA's Water Future

San Fernando Valley Groundwater Basin

Phase 2

- Drill pilot hole and sample water
- Duration: 2 weeks
- Drilling will typically be during daytime hours

Securing LA's Water Future

San Fernando Valley Groundwater Basin

- Phase 3
- Ream borehole to larger diameter
- Construct well
- Develop (clean out) well
- Duration: 2 – 4 weeks

Securing LA's Water Future

San Fernando Valley Groundwater Basin

Phase 4

- Install well pumps
- Complete top of well (to be flush with the ground surface)
- Clean up work site
- Restore sidewalks and streets to original condition
- Demobilize (Remove equipment and leave)
- Duration: 1 – 2 weeks

Securing LA's Water Future

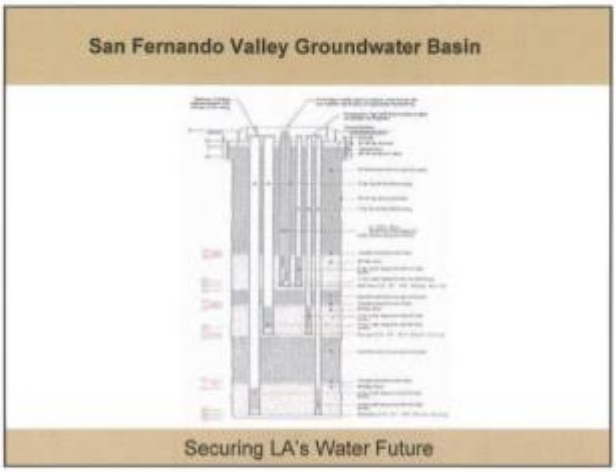
San Fernando Valley Groundwater Basin

Phase 5

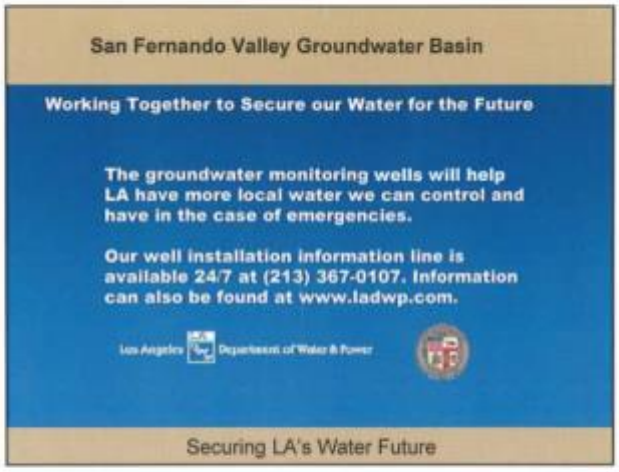
- Water Sampling

- Frequently in the first weeks
- Quarterly after initial testing

Securing LA's Water Future


San Fernando Valley Groundwater Basin
Securing LA's Water Future


San Fernando Valley Groundwater Basin
LADWP Groundwater Well Drilling Project Schedule
Target start for the drilling installation
Week of February 27, 2012
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Working Together to Secure our Water for the Future
The groundwater monitoring wells will help LA have more local water we can control and have in the case of emergencies.
Our well installation information line is available 24/7 at (213) 367-0107. Information can also be found at www.ladwp.com.
Los Angeles Department of Water & Power
Securing LA's Water Future


San Fernando Valley Groundwater Basin
Questions and Answers
Contacts
Marketing and Communications (213) 367-4417
Construction (818) 371-5388
Securing LA's Water Future

LOS ANGELES
DEPARTMENT OF
WATER AND POWER

# GROUNDWATER SYSTEM IMPROVEMENT STUDY (GSIS)

## San Fernando Basin Groundwater Monitoring Well Program Briefing Booklet

**JANUARY 2013 EDITION**

**(Previous Edition January 2011)**

**Program Description**
LADWP is in the process of installing up to 40 new groundwater monitoring wells, with depths of up to 1,000 feet or more. The majority of the wells will be located in residential areas of the Northeast San Fernando Valley, in Council Districts 2, 6 and 7. CD 6 will have the most wells and CD 7 the least based on contamination plume data. Included are the communities of Arleta, Sun Valley, North Hollywood, Panorama City, Van Nuys and Pacoima. Upon completion of construction, the testing of water from these wells is planned to occur quarterly.

**Purpose**
This project is one of 30-40 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley as part of a Groundwater Improvement Study to characterize the nature and extend of groundwater contamination in the San Fernando Basin. Information from this Study will be used to establish effective treatment facilities for remediation, removal and clean up of contaminated groundwater in the San Fernando Basin.

**Community Outreach**
A Community Relations Plan (CRP) has been prepared in accordance with United States Environmental Protection Agency (USEPA) Remedial Investigation / Feasibility Study Guidance, 1988. The Plan will address keeping City Council offices and other officials well-informed; gaining community support by keeping the public informed and involved through presentations to key area organizations; producing public information materials that will communicate clearly to the target communities, considering their history, concerns, demographics and language needs; creation and maintenance of an LADWP program website and library repository information; protocol for communications during emergencies; and outreach to immediately impacted neighbors.

**Construction Schedule and Impacts**
Program construction began in April 2012 with three wells in the CD 6 community of Arleta. Subsequent wells are planned in CD 2 and a few in CD 7. Each well takes two to four months for construction and operational integrity and has five phases of construction. Work hours will generally range between 7 AM and 7 PM, Monday through Friday, with overnight construction for one period of 24-48 hours required for each well.

Construction impacts to be addressed include traffic disruption, accessibility, reduced parking, noise, vibration and air quality. Utility services will not be interrupted during construction.

**Well Construction Process and Duration of Phases**

**Phase 1: Mobilization** **Duration:** 1 week
- The drill rig and other construction equipment set up at the worksite
- Sections of the sidewalk closed off for public safety
- Reduced street parking
- Light truck traffic

**Phase 2: Pilot hole drilling** **Duration:** 7-9 weeks
- Construction noise and vibration from drilling; mufflers and other noise reduction equipment used to reduce noise when possible.
- Driveways may be temporarily blocked; on-site foreman to maintain access for residents
- Contractor will be required to minimize dust and keep the work site clean
- Truck traffic: About 10 pickup trucks daily

**Phase 3: Well Construction** **Duration:** 1 week
- During this phase, the installation of well casings requires one 24-48 hour period of continuous construction. Note: Halting work during this installation could cause the drilled borehole to collapse, resulting in major delays
- Truck traffic: 5 – 7 pickups daily and one large truck daily to haul away soil
- Piper trailer removed

**Phase 4: Well Development and completion, Demobilization** **Duration:** 3 week
- Cleaning of wells and removal of construction mud
- Well pumps installed and tested
- Well heads constructed flush with the ground surface
- Construction equipment removed from worksite
- Sidewalks, street parking and streets restored

**Phase 5: Water sampling** **Frequency & Duration:** Quarterly through 2015
- After initial sampling is complete, each new well will be sampled once quarterly
- Samplings take a few hours to complete
- Sampling team consists of one to three sampling technicians in a marked LADWP vehicle
- A sampling process known as Zone Isolation Sampling Technologies (ZIST sampling), which minimizes all impacts to the immediate neighbors of the well site, will be used

## QUESTIONS AND ANSWERS: GROUNDWATER MONITORING WELLS

**Program Questions**

- **What is the total capacity of the San Fernando Groundwater Basin (SFB) and how many households could that amount serve annually?**
  *Pursuant to the 1979 California Superior Court Judgment, the City of Los Angeles has the right to extract approximately 87,000 acre-feet per year of groundwater from the San Fernando Groundwater Basin. This is enough to serve 174,000 households annually.*

- **What is the current amount of water being supplied by the SFB and what percentage of the City's total water supply is that amount?**
  *During the recent Water Year of October 2009 through September 2010, LADWP produced nearly 53,000 acre feet of groundwater from the San Fernando Basin; nearly 40% below its Court adjudicated water right.*

  *LADWP also produces groundwater from two other regional groundwater basins. In total, approximately 11% of the City's water supply is obtained from the local groundwater basins.*

- **What contaminants have polluted the groundwater and what areas are affected?**
  *Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE), were widely used in the 1940s for dry cleaning and machinery degreasing. Disposal of these solvents was not well regulated at that time and a large number of facilities have released these volatile organic compounds (VOCs) throughout the eastern San Fernando Valley. Over time, improper disposal of these contaminants resulted in the large plume of VOC-contaminated groundwater that extends from the North Hollywood area to the southeast for a distance of about ten miles. Contamination has also affected other areas north of the large groundwater plume, although the extent is not fully known.*

  *In the 1980s, these contaminants were detected in the groundwater at concentration levels which exceed their regulatory limits for drinking water. Other notable contaminants also detected in the groundwater include carbon tetrachloride, trichloraoethane (TCA), chromium, and perchlorate. Nitrate has also affected the groundwater in localized areas as a result of past agricultural activity and the use of septic systems that were not connected to the municipal sewer system.*

- **What are the health impacts of the contaminants in the plume?**
  *Chlorinated solvents such as trichloroethylene (TCE) and tetrachloroethylene (PCE) are known to have both carcinogenic and non-carcinogenic human health affects.*

- **What has LADWP done in the past to address the contamination issue and what is it doing currently?**
  *In 1983, LADWP developed a groundwater quality management plan which called for the deactivation of many supply wells owned by the City and expanded its groundwater sampling program to closely monitoring the occurrence of contamination. Currently, 50 supply wells are deactivated of the City's 115 existing supply wells in the San Fernando Basin.*

  *In 1989, LADWP worked in conjunction with the United States Environmental Protection Agency (USEPA) to construct the North Hollywood Operable Unit. This facility is designed to provide treatment for groundwater extracted from the highly concentrated region of the VOC-contaminate plume. A $20 million investigation funded by USEPA was completed which installed 89 monitoring wells and developed a database, GIS system, and regional groundwater flow model which is regularly updated and currently in use for analyzing the groundwater around the City's major wellfields.*

  *In 2010, LADWP installed groundwater treatment units at the Tujunga Wellfield which has allowed the reactivation two of the City's supply wells. LADWP is studying other treatment process for further implementation and recovery of the City's groundwater supply wells.*

- **What is the cost of the monitoring well and water testing program and how is it being funded?**
  *The cost of constructing the new monitoring wells is approximately $13 million, which is included in the current LADWP budget. The cost of the approximately 2-year testing program will be $4 million, also included in the LADWP budget.*

  *All efforts under this program are being conducted in accordance with USEPA policy guidance to ensure cost recovery for this program from responsible parties is available to the City.*

- **Can LADWP use other existing monitoring wells for this program instead of constructing new ones?**
  *LADWP is relying on the existing network of monitoring wells for this program. The additional monitoring wells proposed under this program are needed to supplement areas where groundwater data does not currently exist but needed to fully determine the extent of groundwater contamination around the City's wellfields.*

- **What are the factors used in determining where the monitoring wells will be located?**
  *Well locations are sited to optimize monitoring along the water flow path to the City's water supply wells and are subject to the approval by the California Department of Public Health. Factors include locations of known or suspected contaminant releases, water quality data, hydrogeologic information, groundwater flow modeling and areas where groundwater data does not exist.*

- **How does the community access information about the project background, history, ongoing construction, operation and contacts?**
  *The LADWP website will have complete information regarding the project including background, history and ongoing construction and operation updates. Contact information for the Engineering Project Manager, Construction Superintendent and/or onsite Construction Supervisor will be posted on the website and a 24-hour project hotline will be set up for callers.*

  *Additionally, in accordance with the USEPA Community Plan guidelines, a central repository of complete program information will be established at an area L.A. City library. There is currently an official USEPA approved repository site located at the Burbank City Library.*

  *In addition to the initial outreach to key stakeholder leaders, residents immediately neighboring each site will be introduced to the construction crew to establish the line of communication with the community. Community meetings will be scheduled as necessary to provide updates and address community concerns.*

- **How will LADWP and its contractor minimize impacts to the community from the program work?**
  - *Suppress noise impact by use of sound barriers.*
  - *Minimize ground vibrations by disallowing use of impact hammers and by utilizing rotary drilling methods.*
  - *Manage exhaust and diesel fuel fumes dispersion and dissipation where necessary by utilizing electric power and minimizing engine idle times.*
  - *Contact information for on-site construction supervisor, LADWP Engineering manager and Project Manager*
  - *On-site security during non-working hours*
  - *Coordinate with LADOT to facilitate local traffic movement and safety and reduce commuter traffic through residential streets affected by construction, if applicable to the project location*
  - *expanded work hours and accelerated scheduling to reduce the duration of the drilling and well installation work*
  - *Identify and facilitate any individual needs for special access.*
  - *Respond to individual circumstances and make remedies available.*

  - *<u>Further localized outreach measures</u>*
  - *Projects update posted weekly on website and elsewhere*
  - *Introduction of work crews to immediate neighbors*
  - *Outreach through area schools and students for "difficult to access" demographic*
  - *Outreach to area Neighborhood Councils, local Neighborhood Watch groups and immediately adjacent residents*
  - *Outreach to key government officials, local businesses, religious, community and educational organizations that can be publicized to leverage local community trust*

**Construction Questions**

- **How long will the drilling and installation of each well take and what is the overall duration for drilling all the wells?**
  *The duration required at each location can vary, but it is estimated that three months will be required to construct each well. The duration to complete the entire program of wells is estimated to take approximately 20 months assuming multiple locations are under construction at the same time.*

- **What is the duration of the water monitoring and testing program once the wells are completed and how often will the water be tested?**
  *Duration of the testing will be approximately two years, through 2015. Testing will be done quarterly for each well.*

- **What is LADWP doing to coordinate with other City Departments and other agencies and the private sector projects in the area?**
  *As with all LADWP major construction projects, other City Departments and public agencies have been contacted to identify other nearby projects that will be in construction at the same time. The LADWP project team will ensure that mitigation measures of the various projects are compatible and minimize disruption or inconvenience to the neighboring community.*

- **What procedures are in place to coordinate with emergency services agencies, local or state, should the need arise during the program duration?**
  *LADWP requires all of its contractors to have a project safety plan in place for responding to onsite safety incidents. Such plans will identify the contact information for all agencies that are likely to respond during an emergency. In the event of an incident, the contractor will immediately secure the work site and any impacted areas and contact the appropriate agencies for response. In addition, LADWP is also immediately notified of any onsite incident and will provide any resources to supplement the contractor response, where needed.*

- **What are the other partner agencies and contractors that LADWP will be working with on this program and what are their roles?**
  ***LADWP*** *– Program lead*

  ***Brown & Caldwell, LLP*** *– contractor providing field logistics, planning and acquisition of permits for construction; involvement in community outreach*

  ***Army Corps of Engineers*** *– well construction*

  ***California Department of Public Health*** *– Regulatory oversight of health and safety issues*

  ***U.S. Environmental Protection Agency*** *– Federal Superfund oversight of contamination remediation*

  ***L.A. Department of Transportation*** *– Review and approval of traffic plan design and implementation, including parking restrictions and enforcement*

  ***L.A. Department of Public Works*** *– Bureaus of Engineering, Street Services and Sanitation for Permit approvals.*

  ***L.A. County Environmental Health*** *– Permit approvals for well construction*

  ***L.A. Police Department –*** *Permit approvals for overnight work*

## 8.2 Outreach Activities for Initial Well Sites

Below is a summary of the outreach activities conducted prior to construction of the first four proposed well locations outlined in Section 2.3.

This CIP was updated with information about outreach activities for the 22 remaining wells, as listed in Appendix A-1.

**8.2.1 Well Number: TJ-MW-06 Location: Wentworth at Stanwin**

Construction Start Date: April 6, 2012
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Community Meeting | 12/8/2011<br><br>2/2/2012 | Community Meeting at Branford Park for neighbors of TJ06<br><br>Community Meeting at the LADWP Saticoy Field Office |
| Letters to 1,500' radius | 1/15/2012 | Written notice of upcoming well drilling construction |
| Notification to Immediate Area | 3/30/2012 | Hand Delivered |
| Night Construction Notice | 6/5/2012 | |
| Media | Week of 1/15/2012 | Ad in local newspaper regarding community meeting |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**May, June 2011** Introductory phone calls to Immediate Neighbors of Proposed Well Sites Introductory phone calls to alert neighbors of upcoming well installation construction

**November 2011** Neighbor of Stanwin site (Sergio Ibarra)

**Week of January 15, 2012** Invitation sent to all homes within 500 feet of Stanwin well-site for February 2, 2012 community meeting
Call and follow-up (well site neighbor C. Sloan)

**January 10 & April 9, 2012** Coordinate parking issues with resident and City Street services departments
Call and follow-up (well site neighbor C. Rueff)

**January 27, 2012, February 15, 2012, March 30, 2012**
Coordinate construction issues (access, noise, other)

Los Angeles Department of Water and Power

28 de marzo, 2012

Estimado Cliente de LADWP:

Tema: Construcción de Un Pozo de Monitoreo de Aguas Subterráneas en Wentworth Ave.

El Departamento de Agua y Energía de Los Angeles (LADWP) va a estar construyendo un pozo de monitoreo de aguas subterráneas en su área. La construcción está programada para comenzar el 6 de abril y durará aproximadamente 3 meses. Nuestras actividades iniciales requieren el uso de un equipo en respuesta a las condiciones de tierra previstas y colocación de envolturas temporales para proteger el pozo. Este trabajo durará aproximadamente cuatro días. Esperamos que los niveles de ruido más altos ocurran durante este tiempo. Nos disculpamos por cualquier inconveniente que esto pueda causarle. Después de esta etapa, vamos a cambiar a métodos rotativos de barro que esperamos reducirá en gran medida los niveles de ruido.

Se tomarán esfuerzos para reducir el ruido, incluyendo el uso de barreras y mantas de control de sonido. Nuevamente, el pozo de monitoreo se ubicará en Wentworth Street al oeste de la Stanwin Avenue. Construcción incluirá la perforación de un pozo pequeño de construcción a una profundidad de 1.300 pies y la instalación de varios tubos de diámetro pequeño en el pozo. La perforación será rellenada y envoltura con una tapa de mantenimiento de hierro fundido en la superficie del suelo.

Equipo utilizado para este proceso incluirá una plataforma de perforación, camiones de apoyo y contenedores de almacenamiento de residuos colocados cerca de la ubicación del pozo de monitoreo. Horas normales de trabajo serán de 7:00 a.m. a 7:00 p.m., del lunes al viernes, con alguna construcción de noche necesaria por aproximadamente dos días para instalar la envoltura del pozo. Anuncio de la ocurrencia de construcción de noche se prestará de antemano a los residentes cercanos.

Para la seguridad del público, se cerrará la acera cerca de la plataforma de perforación. Se instalarán barreras de sonido para suprimir el ruido de construcción tanto como sea posible.

Construcción no afectará su servicio de agua o energía a menos que circunstancias imprevistas requieren una interrupción del servicio.

***Tráfico y Acceso***

Wentworth Street estará cerrada en dirección oeste desde Stanwin Avenue a Woodale Avenue para la duración de este proyecto. Estacionamiento en la calle será restringido en Wentworth Street y en Stanwin Avenue donde designado por los rótulos puestos. Por favor obedecer todo desvíos peatonales y de tráfico que se proporcionan para su seguridad. LADWP coordinará las actividades de construcción para facilitar las necesidades de entrada y salida de las propiedades vecinas.

***¿Por qué estamos haciendo?***

Este proyecto es uno de los 26 pozos de monitoreo de aguas subterráneas que se construirán por LADWP en diversas áreas del este del Valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora al sistema de aguas subterráneas para restaurar el uso de este suministro de agua local de la cuenca de agua subterránea de San Fernando a la ciudad de Los Ángeles.

El esfuerzo también demuestra el compromiso del LADWP y de la Ciudad a asuntos ambientales y de salud, así como la sostenibilidad de agua.

***¿Necesita más información?***

Para preguntas sobre la construcción de este proyecto, por favor comuníquese con Kim Hughes al (213) 367-4417 en nuestra Oficina de Asuntos Públicos o llame a nuestra línea de información de 24 horas al (213) 367-0171, donde puede dejar un mensaje y se devolverá la llamada. También puede encontrar información en el sitio web de LADWP en www.ladwp.com bajo la sección de Proyectos de Mejoramiento de Calidad de Agua (en ingles: Water Quality Improvement Projects).

Agradecemos su apoyo y comprensión mientras trabajamos para construir un mejor suministro de agua sostenible para la ciudad de Los Angeles.

Sinceramente,

Milad Taghavi
Asistente Director de Calidad de Agua
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

June 5, 2012

Dear Valued LADWP Customer:

Subject: Public Notice – Nighttime Construction Work Hours

We want to thank you for your patience as we have been constructing this critical monitoring well. The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the project to secure the final well structure on **Wentworth Street and Stanwin Avenue** which will require some overnight construction. The working hours for this project will be extended to include night work **for the week of June 11, 2012**, as approved by the Los Angeles Police Commission:

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| Nighttime Work Hours: | 7:00 p.m. to 7:00 a.m. |

The extended hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers. For questions or concerns, please contact:

| | |
|---|---|
| Ben Castellana, Contractor On-Site Supervisor | (818) 371-5388 |
| Jean Prendergast, LADWP Project Manager | (213) 276-2309 |

Additional information regarding this project may also be found at www.ladwp.com under Water Quality Improvement Projects.

Again, we appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

5 de junio del 2012

Estimado Cliente del LADWP

Tema: Aviso Público- Construcción durante horas nocturnas

Queremos agradecerles por su paciencia mientras construimos este pozo de monitoreo. El Departamento de Agua y Energía de Los Ángeles (LADWP) pronto estará llegando a una fase de construcción crítica para asegurar la estructura final del pozo en la calle Wentworth y la avenida Stanwin. Esta fase requerirá construcción durante la noche. Las horas de trabajo para este proyecto serán extendidas e incluirán trabajo nocturno durante la semana del 11 de junio del 2012. Este cambio fue aprobado por al junta de comisionados del departamento de policía:

| | |
|---|---|
| Horas de trabajo durante el día: | 7:00 AM a 7:00 PM |
| Horas de trabajo durante la noche: | 7:00 PM a 7:00 AM |

Las nuevas horas serán utilizadas para instalar tubería de PVC dentro de los agujeros que hemos taladrado. Luego los agujeros serán rellenados con una suspensión de arena y cemento. Durante este proceso continuaremos el esfuerzo de reducir el ruido y continuaremos utilizando mantas de control de sonido y barricadas. Si tiene preguntas o preocupaciones, por favor contacte:

| | |
|---|---|
| Ben Castellana, Contratista y supervisor del sitio | (818) 371-5388 |
| Jean Prendergast, Administradora del Proyecto | (213) 276-2309 |

Usted puede obtener mayor información sobre este proyecto en www.ladwp.com, y ver bajo el titulo Proyectos de Mejoramiento de la Calidad del Agua.

Una ves mas, apreciamos su apoyo y paciencia mientras trabajamos para mejorar la calidad y los recursos de agua para la Ciudad de Los Ángeles.

Sinceramente,

Milad Taghavi
Director Asistente de Calidad de Agua
Departamento de Agua y Energía de Los Ángeles

Los Angeles Department of Water & Power

# WORKING TO SECURE LA'S WATER FUTURE

**Groundwater System Improvement Study**
**San Fernando Basin Groundwater**
**Monitoring Well Installation**

## Arleta Neighborhood Community Meeting

Join us for a presentation outlining upcoming construction of groundwater monitoring wells in the Arleta area as part of LADWP's Groundwater System Improvement Study in the San Fernando Valley.

**Thursday, February 2, 2012, 6:30 p.m.**

**Van Nuys Service Center**
14401 Saticoy Street
Van Nuys, CA 91405

**For more information, call (213) 367-1361**

As a covered entity under Title II of the American with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and upon request; we will provide reasonable accommodation to ensure equal access to its program, service and activities. To ensure availability, such requests should be made 72 hours in advance by calling (213) 367-1361, TDD: 1 (800) 432-7397.

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE


WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE


WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

WENTWORTH AVENUE & STANWIN STREET CD 6 – SITE EXAMPLE

**8.2.2 Well Number: TJ-MW-10 Location: Bracken & Lev**

Construction Start Date: September 3, 2012
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Letters to 1,500' radius | August 2012 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | August 2012 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | October 2012 | Hand delivered |

**Summary of Construction Inquiries -- Calls & Follow-up:**
6/30/2012 Special needs coordination with neighbor at 13178 Bracken

Los Angeles Department of Water and Power

June 2012

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Bracken Street and Arleta Avenue

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin in early summer and will last approximately 3 months. Our initial activities require equipment to be used in response to expected soil conditions and placement of temporary casings to secure the borehole. This work will last approximately four days. We expect the greatest noise levels to occur during this time. We apologize for any inconvenience this may cause. After this stage, we will change to mud rotary methods which we expect will greatly reduce noise levels.

Efforts will be taken to reduce the noise, including the use of sound control blankets and barriers. Again, the monitoring well will be located on Bracken Street near Arleta Avenue. Construction will involve drilling a small borehole to a depth of 1,300 feet and installing several small diameter pipes into the borehole. The borehole will be backfilled and covered with a cast iron maintenance lid at the ground surface.

Equipment used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents.

For the safety of the public, the sidewalk will be closed near the drill rig. Sound barriers will be installed to suppress the construction noise as much as possible.

Construction work will not affect your water or power service unless unforeseen circumstances require a service interruption.

***Traffic and Access***

The Los Angeles Department of Transportation is reviewing the construction plan and will be assisting in facilitating traffic. There is not a plan to close a street, but parking will be limited. Please obey all pedestrian and traffic detours which are provided for your safety. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

***City Services***

The LADWP will be coordinating trash pick-up with the Los Angeles Department of Sanitation. Right now there should be no changes to the trash pick-up schedule or process.

The LADWP will also be alerting the local fire and police stations, so they are aware of the construction, in order that their response procedures would not be impacted.

***Why is LADWP Doing This?***

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to clean up underground pollution and restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

The effort also demonstrates the commitment of LADWP and the City to environmental and health issues, as well as water sustainability.

***Need More Information?***

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Community Relations Office or call our 24 hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned. Information can also be found on the LADWP web site at www.ladwp.com under Water Projects.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

August 2012

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Bracken Street
near Lev Avenue

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Work is scheduled to begin in late August, and will involve use of the parking lane between Arleta and Lev on the north side of Bracken. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24 hour information line at (213) 367-0171, where you can leave a message and your inquiry call will be returned. Information may also be found on the LADWP web site at www.ladwp.com under Water Quality – Local Groundwater.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water & Power

# GROUNDWATER SYSTEM IMPROVEMENT STUDY

# WELL DRILLING PROJECT BRACKEN ST NEAR LEV AVE

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area beginning in late August. Construction is expected to last approximately 3 months.

The monitoring well will be located on Bracken Street near Lev Avenue. Construction will involve drilling a small borehole to a depth of 1,000 feet and installing several small diameter PVC pipes into the borehole. The borehole will be backfilled and covered with a cast iron maintenance lid at the ground surface.

Equipment used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a period of one week to stabilize the well.

For the safety of the public, the sidewalk will be closed near the drill rig. Sound barriers will be installed to suppress the construction noise as much as possible.

Construction work will not affect your water or power service unless unforeseen circumstances require a service interruption.

## Traffic and Access

The Los Angeles Department of Transportation will be assisting in facilitating traffic. Parking will be limited to accommodate traffic flow in all directions. Please obey all pedestrian and traffic detours which are provided for your safety. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

## City Services

The LADWP will be coordinating trash pick-up with the Los Angeles Department of Sanitation. Right now there should be no changes to the trash pick-up schedule or process.

## Why Are We Doing This?

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to improve LADWP's use of this local water supply from the San Fernando Groundwater Basin.

Water samples will be collected from the monitoring wells to analyze the patterns of contamination in the underground water supply and determine the nature and extent of any pollution. The location of each well was selected to measure water quality along specific groundwater flow paths which lead towards water supply wells in the nearby LADWP well field.

It should be noted that the planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples will be taken from these wells on a quarterly basis.

This Groundwater System Improvement Study will ultimately result in projects which remove contamination, expand groundwater storage, improve the use of the local water supply, and diversify our sources of water that can be used after an earthquake or other disaster. These future projects are not planned to take place in your neighborhood. This program will also reduce our dependency on expensive imported water and result in lower costs to LADWP customers. This strategy is to ensure a safe, secure, cost effective, and sustainable water supply that will meet the future needs of the City.

The effort also demonstrates the commitment of LADWP and the City to environmental and health issues, as well as water sustainability.

## Need More Information?

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24 hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned. Information can also be found on the LADWP web site at **www.ladwp.com** under Water Quality – Local Groundwater.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

08/2012

Los Angeles Department of Water & Power

## ESTUDIO DE MEJORAMIENTO DEL SISTEMA DE AGUAS SUBTERRÁNEAS

# PROYECTO DE PERFORACIÓN DE POZO BRACKEN ST CERCA DE LEV AVE

El Departamento de Agua y Energía (LADWP) estará construyendo un pozo para el monitoreo del agua subterránea en su área empezando a fines de agosto. Se anticipa que la construcción durará aproximadamente 3 meses.

El pozo de monitoreo estará ubicada en Bracken Street ceca de Lev Avenue. Construcción se consiste de la perforación de un pequeño pozo a una profundidad de 1,000 pies e instalar varios tubos de PVC de diámetro pequeño en el pozo. El pozo será rellenado y cubierto con una tapa de hierro fundido en la superficie de la tierra.

Equipo utilizado para este proceso incluirá una torre de perforación, camiones y contenedores de almacenamiento de residuos colocados cerca de la ubicación del pozo de monitoreo. Horas normales de trabajo serán de 7:00 a.m. a 7:00 p.m., lunes a viernes, con alguna construcción de noche requerida para un periodo de una semana para estabilizar el pozo.

Para la seguridad del público, se cerrará la acera cerca de la torre de perforación. Se instalarán barreras de sonido para reducir el ruido de construcción tanto como sea posible. Construcción no afectará su servicio de agua o energía a menos que circunstancias imprevistas requieren una interrupción del servicio.

## Tráfico y Acceso

El Departamento de Transporte de Los Ángeles ayudará en facilitar tráfico. Estacionamiento será limitado para acomodar el tráfico en todas direcciones. Por favor siga todos los desvíos peatonales y vehiculares que se han establecido para su seguridad. LADWP coordinará sus actividades de construcción para facilitar las necesidades de ingreso y egreso de los residentes en la zona inmediata.

## Servicios Municipales

LADWP coordinará recolección de basura con la Agencia de Saneamiento de Los Angeles. Actualmente no deben existir ningunos cambios al horario o proceso de recolección de basura.

## ¿Por Que Estamos Haciendo Esto?

Este proyecto es uno de los 26 pozos de monitoreo de aguas subterráneas que serán construidos por LADWP en varias áreas del este del Valle de San Fernando. Estos pozos se utilizarán para recolectar datos para un amplio Estudio de Mejora del Sistema de Agua Subterránea para mejorar el uso del LADWP de este suministro de agua local de la Cuenca de Agua Subterránea de San Fernando.

Se recolectarán muestras de agua de los pozos de monitoreo para analizar los patrones de contaminación en el agua subterránea y determinar la naturaleza y el alcance de cualquier contaminación. La ubicación de cada pozo fue seleccionada para medir la calidad del agua a lo largo de rutas de flujo de agua subterránea específicas que conducen hacia los pozos de suministro de agua en el cercano campo de pozos de LADWP.

Se debe notar que los pozos de monitoreo planificados se utilizarán solamente para pruebas de agua y no se utilizarán para suministrar agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este Estudio de Mejora del Sistema de Aguas Subterráneas finalmente resultará en proyectos que eliminarán la contaminación, ampliarán el almacenamiento de las aguas subterráneas, mejorarán el uso de la fuente de agua local y diversificarán nuestras fuentes de agua que pueden usarse después de un terremoto u otro desastre. Estos proyectos futuros no están previstos en su vecindario. Este programa también reducirá nuestra dependencia de agua importada cara y resultará en menores costos para los clientes de LADWP. Esta estrategia es para asegurar un suministro de agua sano, seguro, económico y sostenible que cumplirá con las necesidades futuras de la ciudad.

El esfuerzo también demuestra el compromiso de LADWP y de la Ciudad a los asuntos ambientales y de salud, así como sostenibilidad de agua.

## ¿Necesita Más Información?

Para preguntas relacionadas con la construcción de este proyecto, por favor póngase en contacto con Kim Hughes al (213) 367-4417 en nuestra Oficina de Asuntos Públicos o llame a nuestra línea de información de 24 horas al (213) 367-0107, donde puede dajar un mensaje y se le devolverá su llamada. También se puede encontrar información en el sitio web de LADWP en **www.ladwp.com** bajo Calidad de Agua - Agua Subterránea Locales.

Apreciamos su apoyo y comprensión mientras trabajamos para construir un suministro de agua mejor y sostenible para la Ciudad de Los Angeles.

08/2012

**8.2.3 Well Number: TJ-MW-08 Location: Gullo & Chase**

Construction Start Date: September 13, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Letters to 1,500' radius | May 2012 | Written information about upcoming well drilling construction |
| Notification to Immediate Area | May 2012 | |
| Night Construction Notice | 11/13/2012 | |

**Summary of Construction Inquiries -- Calls & Follow-up:**
None received

Los Angeles Department of Water and Power

May 2012

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Gullo Avenue and Chase Street near Arleta Avenue

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin in early summer and will last approximately 3 months. Our initial activities require equipment to be used in response to expected soil conditions and placement of temporary casings to secure the borehole. This work will last approximately four days. We expect the greatest noise levels to occur during this time. We apologize for any inconvenience this may cause. After this stage, we will change to mud rotary methods which we expect will greatly reduce noise levels.

Efforts will be taken to reduce the noise, including the use of sound control blankets and barriers. Again, the monitoring well will be located on Gullo Avenue near Chase Street. Construction will involve drilling a small borehole to a depth of 1,300 feet and installing several small diameter pipes into the borehole. The borehole will be backfilled and covered with a cast iron maintenance lid at the ground surface.

Equipment used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents.

For the safety of the public, the sidewalk will be closed near the drill rig. Sound barriers will be installed to suppress the construction noise as much as possible.

Construction work will not affect your water or power service unless unforeseen circumstances require a service interruption.

***Traffic and Access***

The Los Angeles Department of Transportation is reviewing the construction plan and will be assisting in facilitating traffic. There is not a plan to close a street, but parking will be limited. Please obey all pedestrian and traffic detours which are provided for your safety. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

Working to Secure LA's Water Future
Los Angeles Department of Water and Power
Water Quality Groundwater System Improvement Study
Well Drilling Project

Public Community Meeting

You are invited to come learn about a new water quality improvement project in the northern San Fernando Valley

Thursday, January 12, 2012
6:30 p.m.
Los Angeles Department of Water and Power Van Nuys Service Center
14401 Saticoy Street
Van Nuys, CA 91405

For more information, call (213) 367-1361

As a covered entity under Title II of the American with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and upon request; we will provide reasonable accommodation to ensure equal access to its program, service and activities. To ensure availability, such requests should be made 72 hours in advance by calling (213) 367-1361, TDD: 1 (800) 432-7397.

Los Angeles Department of Water and Power

November 13, 2012

Dear Valued LADWP Customer:

Subject: Public Notice – Nighttime Construction Work Hours

We want to thank you for your patience as we have been constructing this critical monitoring well. The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the project to secure the final well structure on **Chase and Gullo, which will require some overnight construction.** The working hours for this project will be extended to include night work **for a few days, approximately November 16 through November 17, 2012**, as approved by the Los Angeles Police Commission. It is our hope to get this critical work completed prior to the Thanksgiving holiday, so as to not impact the holiday.

The regular work hours are:

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| Nighttime Work Hours: | 7:00 p.m. to 7:00 a.m. |

The extended hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers. For questions or concerns, please contact:

| | |
|---|---|
| Ben Castellana, Contractor On-Site Supervisor | (818) 371-5388 |
| Jean Prendergast, LADWP Project Manager | (213) 276-2309 |

Additional information regarding this project may also be found at www.ladwp.com under Water Quality Improvement Projects.

Again, we appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

**8.2.4 Well Number: TJ-MW-11 Location: Sharp & Bromwich**

Construction Start Date: February 4, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Letters to 1,500' radius | January 2013 | Written information about upcoming well drilling construction |
| Notification to Immediate Area | January 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | March 2013 | |

**Summary of Construction Inquiries -- Calls & Follow-up:**
None received

Los Angeles Department of Water and Power

January 2013

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Sharp Avenue near Bromwich Street

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Work is scheduled to begin in early February, and will involve use of the parking lane north of Bromwich on the west side of Sharp. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24 hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned. Information may also be found on the LADWP web site at www.ladwp.com under Water Quality – Local Groundwater.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

Enero del 2013

Estimado Cliente del LADWP:

Tema: Construcción de un Pozo de Monitoreo de Agua Subterránea en la avenida Sharp cerca de la calle Bromwich

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar a principios de febrero y afectará el carril de estacionamiento al norte de la calle Bromwich, en el lado oeste de la calle Sharp. La construcción durará por un periodo de tres meses aproximadamente.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. El LADWP coordinara sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Si usted tiene preguntas sobre este proyecto, por favor contacte a Kim Hughes en la oficina de relaciones comunitarias al (213) 367-4417, o llame a la línea de información (213) 367-0107 donde usted podrá dejar un mensaje las 24 horas del día y su llamada será devuelta. Información sobre este proyecto también puede ser obtenida en nuestro sitio en la red www.ladwp.com bajo Calidad del Agua- Agua subterránea local.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Milad Taghavi
Director Asistente de Calidad de Agua
Departamento de Agua y Energía de Los Ángeles

Los Angeles Department of Water and Power

March 20, 2012

Dear Valued LADWP Customer:

Subject: Public Notice – Nighttime Construction Work Hours on Sharp Avenue and Bromwich Street

We want to thank you for your patience as we have been constructing this critical groundwater monitoring well. The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the project to secure the final well structure on **Sharp Avenue and Bromwich Street,** which will require some overnight construction. The working hours for this project will be extended to include night work **for a few days.** We expect this work to begin as early as **Monday, March 25**, as approved by the Los Angeles Police Commission:

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| Nighttime Work Hours: | 7:00 p.m. to 7:00 a.m. |

The extended hours will be used to install PVC pipes into the drilled borehole and back-fill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

For questions or concerns, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24-hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned.

For questions or concerns requiring response during nighttime work hours, please contact Ben Castellana, Site Supervisor, at (818) 371-5388.

Additional information regarding this project may also be found at www.ladwp.com under Water Quality Improvement Projects.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

### 8.2.5 Well Number: TJ-MW-14 Location: Correnti & Haddon

Construction Start Date: February 13, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | February 6, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | February 6, 2013 | Hand delivered - Written notice of upcoming well drilling construction. Notification delivered to the immediate area was the same as the letter mailed. |
| Night Construction Notice | April 16, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**February 4, 2013** Contacted CD 6 to provide copy of letter and notify them of plans for mailing.

Briefed J. Stanfield of Pacoima Neighborhood Council on well construction plans.

Los Angeles Department of Water and Power

February 2013

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Correnti Street near Haddon Avenue

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Work is scheduled to begin mid-February, and will involve use of the parking lane south of Haddon on the west side of Correnti. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24 hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned. Information may also be found on the LADWP web site at www.ladwp.com under Water Quality – Local Groundwater.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

Febrero del 2013

Estimado Cliente del LADWP:

Tema: Construcción de un Pozo de Monitoreo de Agua Subterránea en la calle Correnti cerca de la avenida Haddon.

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar a mediados de febrero y afectará el carril de estacionamiento al sur de la avenida Haddon, en el lado oeste de la calle Correnti. La construcción durará por un periodo de tres meses aproximadamente.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. El LADWP coordinara sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Si usted tiene preguntas sobre este proyecto, por favor contacte a Kim Hughes en la oficina de relaciones comunitarias al (213) 367-4417, o llame a la línea de información (213) 367-0107 donde usted podrá dejar un mensaje las 24 horas del día y su llamada será devuelta. Información sobre este proyecto también puede ser obtenida en nuestro sitio en la red www.ladwp.com bajo Calidad del Agua- Agua subterránea local.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Milad Taghavi
Director Asistente de Calidad de Agua
Departamento de Agua y Energía de Los Ángeles

Los Angeles Department of Water and Power

April 11, 2013

Dear Valued LADWP Customer:

Subject: Public Notice – Nighttime Construction Work Hours on Haddon Avenue and Correnti Street

We want to thank you for your patience as we have been constructing this critical groundwater monitoring well. The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the project to secure the final well structure on **Haddon Avenue and Correnti Street,** which will require some overnight construction. The working hours for this project will be extended to include night work **for a few days.** We expect this work to begin as early as **Monday, April 22**, as approved by the Los Angeles Police Commission:

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| Nighttime Work Hours: | 7:00 p.m. to 7:00 a.m. |

The extended hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

For questions or concerns regarding this work, please call our 24-hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned.

For questions or concerns requiring response during nighttime work hours, please contact Ben Castellana, Site Supervisor, at (818) 371-5388.

For more information regarding this project visit www.ladwp.com under *About Us* and *Water Quality – Local Groundwater*.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power


Well # TJ #14 - Correnti Street & Haddon Avenue – CD 7 Photos 3 & 4

Well TJ #14 - Correnti Street & Haddon Avenue – CD 7 Photos 9 & 10

### 8.2.6 Well Number: RT-MW-04 Location: Vantage & Stagg

Construction Start Date: April 1, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Council Briefing | February 6, 2013 | Email requesting briefing |
| Letters to 1,500' radius | February 21, 2013 | |
| Notification to Immediate Area | February 2013 | |
| Night Construction Notice | April 26, 2013 | Hand delivered |
| Media | N/A | |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**February 21, 2013** LADWP staff attended the NoHo Northeast Neighborhood Council meeting and briefed them on the GSIS project and the upcoming construction.

**February 27, 2013** LADWP staff attended the NoHo West Neighborhood Council meeting and briefed them on the GSIS project and the upcoming construction.

**April 28, 2013** Neighbor called regarding low water pressure. Low pressure was due to main break nearby.

Los Angeles Department of Water and Power

February 2013

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on Vantage Avenue near Stagg Street

The Los Angeles Department of Water and Power (LADWP), with assistance from the U.S. Army Corps of Engineers will be constructing a groundwater monitoring well in your area. Work is scheduled to begin in early March, and will involve use of the parking lane south of Stagg on the west side of Vantage. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For questions regarding the construction of this project, please contact Kim Hughes at (213) 367-4417 in our Public Affairs Office or call our 24 hour information line at (213) 367-0107, where you can leave a message and your inquiry call will be returned. Information may also be found on the LADWP web site at www.ladwp.com under Water Quality – Local Groundwater.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

Febrero del 2013

Estimado Cliente del LADWP:

Tema: Construcción de un Pozo de Monitoreo de Agua Subterránea en la avenida Vantage cerca de la calle Stagg.

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar a principios de marzo y afectará el carril de estacionamiento al sur de Stagg, en el lado oeste de Vantage. La construcción durará por un periodo de tres meses aproximadamente.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. El LADWP coordinara sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Si usted tiene preguntas sobre este proyecto, por favor contacte a Kim Hughes en la oficina de relaciones comunitarias al (213) 367-4417, o llame a la línea de información (213) 367-0107 donde usted podrá dejar un mensaje las 24 horas del día y su llamada será devuelta. Información sobre este proyecto también puede ser obtenida en nuestro sitio en la red www.ladwp.com bajo Calidad del Agua- Agua subterránea local.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Milad Taghavi
Director Asistente de Calidad de Agua

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

April 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Vantage Ave. and Stagg St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, April 29,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

For questions or concerns requiring response during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor (818) 371-5388.

For information regarding this project, please contact the LADWP Community Relations Office at (213) 367-1361. Additional information regarding this project may also be found at www.ladwp.com/wells.

We appreciate your patience and support during the construction of this critical monitoring well as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

25 de abril de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Vantage Ave. y Stagg St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **lunes, 29 de abril,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.

Para obtener información sobre este proyecto, comuníquese con la Oficina de Relaciones Comunitarias de LADWP al (213) 367-1361. Información adicional sobre este proyecto también se puede encontrar en www.ladwp.com/wells.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo mientras trabajamos para asegurar un suministro de agua sostenible para la ciudad de Los Angeles.

Sinceramente,

Milad Taghavi
Subdirector de Calidad del Agua
Departamento de Agua y Energía de Los Ángeles

Well #RTMW-04 - Stagg Street & Vantage Avenue – CD 2 Photos 5 & 6


Well #RTMW-04 - Stagg Street & Vantage Avenue – CD 2 Photos 3 & 4

Well #RTMW-04 - Stagg Street & Vantage Avenue – CD 2 Photos 1 & 2


**Well #RTMW-04 - Stagg Street & Vantage Avenue – CD 2 Photos 9 & 10**

### 8.2.7 Well Number: NH-MW-06 Location: St. Clair & Hart

Construction Start Date: April 29, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 10, 2013 | Access construction location and identify potential issues. G. Bartz, S. Spicer |
| Letters to 1,500' radius | April 17, 2013 | Mailed - Written information about upcoming well drilling construction. Sent to Print Shop on 4/17/13; set to arrive in mailboxes before start of construction. |
| Notification to Immediate Area | April 17, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notification | May 2, 2013 | Hand delivered – Written notice of scheduled overnight work. |
| Media | N/A | None |

### Summary of Construction Inquiries -- Calls & Follow-up:

**April 19, 2013** - Call and follow-up with NH06 well site neighbor (Ms. Rivera - 12225 Hart St.) G. Bartz contacted to notify that construction would block garage driveway and side gate on the St. Clair side of her property. She indicated it would not be a problem and she would be talking to her family members re this. She understands that access from Hart street will be unrestricted.

**April 19, 2013** - Call and follow-up with NH06 well site neighbor (7029 St. Clair Ave) – daycare G. Bartz contacted this customer to discuss upcoming construction in light of daycare operation nearby. The man who answered the phone at the day care 7029 St. Clair had only rudimentary English skills and a Spanish speaker is needed for that communication.

**April 22, 2013 -** Call and follow-up with NH06 well site neighbor (7029 St. Clair Ave) – daycare S. Spicer followed up to discuss project in Spanish. Two calls were attempted, but customer hung up the phone before anything could be said.

**May 8, 2013 -** Call and follow-up with neighbor (7042 St. Clair Ave) regarding construction vibration & noise.

**June 19, 2013 -** Follow-up with neighbor (7042 St. Clair Ave) regarding construction vibration Construction team tested vibration levels. S. Spicer & J. Prendergast visited neighbor and followed up with email to provide information regarding well locations.

**June 25, 2013 -** Follow-up with neighbor (7042 St. Clair Ave) via email regarding inquiry on Hewitt Landfill and location of planned GSIS groundwater monitoring wells.

**June 24, 2014 –** Received a call from a resident concerned about bugs coming out of manhole at the well site when our staff comes to the site for sampling. Staff investigated and found no bugs at LADWP site. Referred to Bureau of Sanitation for further investigation

Los Angeles Department of Water and Power

April 15, 2013

Dear Valued LADWP Customer:

Subject: Construction of Groundwater Monitoring Well on St. Clair Ave. near Hart St.

The Los Angeles Department of Water and Power (LADWP), with assistance from the U.S. Army Corps of Engineers will be constructing a groundwater monitoring well in your area. Work is **tentatively scheduled to begin April 29,** and will involve use of the parking lane on the **east side of St. Clair Ave between Hart St and Vose St.** Street parking will be restricted on the west side of St. Clair Ave from Hart St. to Gault St. during construction. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For information regarding this construction project, please call our Community Relations Office at (213) 367-1361. Information may also be found on the LADWP web site at www.ladwp.com/wells.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Milad Taghavi
Assistant Director of Water Quality
Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

15 de abril de 2013

Estimado Cliente del LADWP:

Tema: Construcción de un Pozo de Monitoreo de Agua Subterránea en St. Clair Ave. cerca de Hart St.

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar el **29 de abril**, y afectará el carril de estacionamiento en **el lado este de St. Clair Ave. entre Hart St. y Vose St.** Estacionamiento en la calle será restringido en el lado oeste de St. Clair Ave. desde Hart St. hasta Gault St. durante la construcción. La construcción durará por un periodo de tres meses aproximadamente.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. El LADWP coordinara sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Para información acerca de este proyecto, por favor llame a la Oficina de Asuntos Comunitarios al (213) 367-1361.. Información sobre este proyecto también puede ser obtenida en nuestro sitio en la red www.ladwp.com/wells.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Milad Taghavi
Director Asistente de Calidad de Agua
Departamento de Agua y Energía de Los Ángeles

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **St. Clair Ave. and Hart St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Wednesday, June 12, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns requiring response during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor (818) 371-5388.**

For information regarding this project, please contact the LADWP Community Relations Office at (213) 367-1361. Additional information regarding this project may also be found at www.ladwp.com/wells.

We appreciate your patience and support during the construction of this critical monitoring well as we work to build a better sustainable water supply for the City of Los Angeles.

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **St. Clair Ave. y Hart St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **miércoles, 12 de junio de 2013** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.**

Para obtener información sobre este proyecto, comuníquese con la Oficina de Relaciones Comunitarias de LADWP al (213) 367-1361. Información adicional sobre este proyecto también se puede encontrar en www.ladwp.com/wells.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo mientras trabajamos para asegurar un suministro de agua sostenible para la ciudad de Los Angeles.

### 8.2.8 Well Number: TJ-MW-07 Location: Laurel Canyon & Tonopah

Construction Start Date: May 9, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 10, 2013 | |
| Letters to 1,500' radius | April 30, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | May 3, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | July 3, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

May 1, 2013 Called immediate neighbor 9137 Laurel Canyon Bvld. to inform of construction. Left voicemail

May 7, 2013 Follow-up call to 9137 Laurel Canyon Blvd.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Tonopah St. near Laurel Canyon Blvd.

April 29, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP), with assistance from the U.S. Army Corps of Engineers, will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin **as early as May 6** on the **north side of Tonopah St. between Laurel Canyon Blvd. and Morehart Ave.** During construction, street parking will be restricted on both sides of Tonopah St. from Laurel Canyon Blvd. to just Morehart Ave. Construction will last approximately 3 months.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For information regarding this construction project, please call our Community Relations Office at (213) 367-1361. Information may also be found at www.ladwp.com/wells.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Albert Gastelum
Director of Water Quality
Los Angeles Department of Water and Power

## Instalación de Pozo de Monitoreo de Agua Subterránea
### Tonopah St. cerca de Laurel Canyon Blvd.

29 de abril 2013

Estimado Cliente del LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para **comenzar tan pronto como el 6 de mayo** en **el lado norte de Tonopah St. entre Laurel Canyon Blvd. y Morehart Ave.** Estacionamiento en la calle será restringido en ambos lados de Tonopah St. desde Laurel Canyon Blvd. hasta Morehart Ave. La construcción durará por un periodo de tres meses aproximadamente.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Para información acerca de este proyecto, comuníquese con la Oficina de Asuntos Comunitarios al (213) 367-1361. Información sobre este proyecto también se encuentra en www.ladwp.com/wells.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Albert Gastelum
Director of Water Quality

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Tonopah St. and Laurel Canyon Blvd.**

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Tonopah St. and Laurel Canyon Blvd.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, July 8, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns requiring response during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor at (818) 371-5388.**

We appreciate your patience and support during the construction of this critical monitoring well as we work to protect the environment and build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Tonopah St. y Laurel Canyon Blvd.**

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Tonopah St. y Laurel Canyon Blvd.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **lunes, 8 de julio de 2013** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.**

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo mientras trabajamos para proteger el medio ambiente y asegurar un suministro de agua sostenible para la ciudad de Los Angeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.0 Well Number: TJ-MW-13 Location: Glamis & Vena

Construction Start Date: June 24, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | May 15, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | June 21, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | July 25, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Glamis St. at Vena Ave.

May 15, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP), with assistance from the U.S. Army Corps of Engineers, will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin in **early June** on the **north side of Glamis St. closest to Vena Ave.** During construction, street parking will be restricted on both sides of Glamis St. between Vena Ave and Lev Ave. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to restore the City of Los Angeles' use of this local water supply from the San Fernando Groundwater Basin.

For information regarding this construction project, please call our Community Relations Office at (213) 367-1361. Information may also be found at www.ladwp.com/wells.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

Sincerely,

Albert G. Gastelum
Director of Water Quality
Los Angeles Department of Water and Power

## Instalación de Pozo de Monitoreo de Agua Subterránea
### Glamis St. cerca de Vena Ave.

15 de mayo de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para **comenzar a principios de junio** en **el lado norte de Glamis St. cerca de Vena Ave.** Estacionamiento será restringido en ambos lados de Glamis St. entre Vena Ave., y Lev Ave. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando.

Para información acerca de este proyecto, comuníquese con la Oficina de Asuntos Comunitarios al (213) 367-1361. Información sobre este proyecto también se encuentra en www.ladwp.com/wells.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

Sinceramente,

Albert G. Gastelum
Director de Calidad de Agua
Departamento de Agua y Energía de Los Ángeles

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

## Groundwater Monitoring Well Installation

**LADWP will be constructing a groundwater monitoring well in your area.**

**Construction will begin: the week of June 24 on Glamis Street south of Vena Avenue.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period to stabilize the well.**

Construction will involve drilling a small borehole to a depth of approximately 1,000 feet and installing several small diameter PVC pipes into the borehole. The borehole will be backfilled and covered with a maintenance lid at the ground surface.

Equipment used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.
For the safety of the public, the sidewalk will be closed near the drill rig. Sound barriers will be installed to suppress the construction noise as much as possible.

Construction work will not affect your water or power service unless unforeseen circumstances require a service interruption.

### Traffic and Access

The Los Angeles Department of Transportation will be assisting in facilitating traffic. Parking will be limited to accommodate traffic flow in all directions. Please obey all pedestrian and traffic detours which are provided for your safety. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

### City Services

The LADWP will be coordinating trash pick-up with the Los Angeles Department of Sanitation. There are no anticipated changes to the trash pick-up schedule or process.

### Purpose

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study to improve LADWP's use of this local water supply from the San Fernando Groundwater Basin.

Water samples will be collected from the monitoring wells to analyze the contamination in the underground water supply and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward water supply wells in nearby LADWP well fields.

The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples will be taken from these wells on a quarterly basis.

This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program ensures that local groundwater resources remain available to meet the needs of the City.

**For More Information**
(213) 367-1361
www.LADWP.com/wells

05/2013

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Glamis St. at Vena Ave.**

July 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Glamis St. at Vena Ave.** the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Tuesday, July 30,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor (818) 371-5388.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Glamis St. at Vena Ave.**

25 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Glamis St. con Vena Ave.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **martes, 30 de julio,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.1 Well Number: TJ-MW-12 Location: Amboy & Pierce

Construction Start Date: July 16, 2013
Construction Completed: September 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | July 3, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 8, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | October 28, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**July 8, 2013** S. Spicer spoke to residents across the street. Explained timeline, construction, purpose of project

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation

## Amboy Ave. at Pierce St.

July 1, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP), with assistance from the U.S. Army Corps of Engineers, will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin as early as July 15, 2013 on the **south side of Amboy Ave. closest to Pierce St.** During construction, street parking will be restricted on both sides of Amboy Ave. closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office (213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea

## Amboy Ave. y Pierce St.

1 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **15 de julo de 2013** en **el lado sur de Amboy Ave cerca de Pierce St.** Estacionamiento será restringido en ambos lados de Amboy Ave. en el área más cercana a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Asuntos Comunitarios (213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**at Amboy Ave. and Pierce St.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as July 15, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Aç
## en Amboy Ave. con Pierce _ _

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 15 de julio, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 dias con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Amboy Ave. at Pierce St.

October 28, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on the south side of **Amboy Ave. near Pierce St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, November 4, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Ben Castellana at (818) 371-5388.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information, during normal business hours:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Amboy Ave. con Pierce St.**

28 de octubre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en el lado sur de **Amboy Ave. más cercano a Pierce St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo comience tan pronto como el **lunes, el 4 de noviembre de 2013,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 p.m. a 7:00 a.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberias de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para asuntos que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana al (818) 371-5388.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.2 Well Number: NH-MW-11 Location: Bellingham & Vanowen

Construction Start Date: July 15, 2013
Construction Completed: November 19, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | July 3, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 8, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 11, 2013 | Hand delivered |
| Media | N/A | None |

### Summary of Construction Inquiries -- Calls & Follow-up:

**June 26, 2013** Tree Removal Authorization form delivered

**July 10, 2013** Signed Tree Removal Authorization form obtained

**July 26, 2013** Social worker contacted LADWP on behalf of neighbor. Resident had closed windows due to construction activity, which limited ventilation. Project team responded the same day and provided a temporary A/C and air filter.

**July 29, 2013** Community Relations Office followed up with neighbor to make sure everything was ok. Reminded her of the contact numbers for any future concerns

**September 12, 2013** Neighbor notified construction team that A/C unit was not functioning. The A/C was replaced the same day and she was reminded of the upcoming overnight construction.

**February 5, 2014** Resident at 6823 Bellingham Ave called to say she would like to file a claim regarding cracks in her home that she feel were caused by LADWP's well construction.

Los Angeles Department of Water & Power

## Bellingham Ave & Vanowen St in North Hollywood

**Groundwater Monitoring Well Installation**
**June 2013**
Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

7:00 a.m. to 7:00 p.m., Monday through Friday, for approximately 3 months.
Some overnight construction will be required. Advance notice will be provided to nearby residents.

**Instalación de Pozo de Monitoreo de Agua Subterránea** - junio 2013
Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

7:00 a.m. a 7:00 p.m., lunes a viernes, por aproximadamente 3 meses.
Construcción de noche será necesaria por unos días. Los residentes más cercanos al pozo recibirán aviso de ante mano.

## Bellingham Ave & Vanowen St in North Hollywood

This project is one of 26 groundwater monitoring wells that LADWP is constructing in the San Fernando Valley. Groundwater samples obtained from the wells will be used for a comprehensive Groundwater System Improvement Study to develop systems for removing contamination from the groundwater and to protect the public health and the environment.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por LADWP en el Valle de San Fernando. Muestras de agua subterráneas obtenidas de estos pozos serán utilizados para un estudio comprensivo para la mejora de aguas subterráneas para desarrollar sistemas para remover contaminación de las aguas subterráneas y proteger la salubridad pública y el medio ambiente.

**For Information/ Para Información:**
**213-367-1361**
**www.ladwp.com/wells**

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Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**at Bellingham Ave. north of Vanowen St.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as July 15, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**en Bellingham Ave. al norte de Vanowen St.**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

## Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 15 de julio, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells

(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Bellingham Ave north of Vanowen St.**

September 10, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Bellingham Ave north of Vanowen St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, SEPTEMBER 16,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor (818) 371-5388.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Bellingham Ave al norte de Vanowen St.

10 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Bellingham Ave al norte de Vanowen St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **LUNES, el 16 de SEPTIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

June 26, 2013

Dear Mr. Saro Agaronyan and Ms. Alvard Avagyan:

**SUBJECT: Construction of Groundwater Monitoring Well on Bellingham Ave. north of Vanowen St; Tree Removal at 6823 Bellingham Ave.**

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your neighborhood. The construction is scheduled to begin as early as July 15, 2013 and will last approximately 3 months. The construction will involve use of the sidewalk and parking lane on the west side of Bellingham Ave, just north of the alley and north of Vanowen St.

As part of the construction, LADWP is securing a permit to remove the small tree in the parkway in front of your home at 6823 Bellingham Ave. Once the construction is completed, LADWP will replace the tree accordingly. We request your written authorization for this temporary removal of the tree to complete the permit application. **Please provide your signature on the enclosed authorization form which will be submitted with our application to the permitting agency.**

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday. Some overnight construction will be required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the area near the well construction. LADWP will coordinate construction activities to facilitate the access needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study (GSIS) to identify technologies for removing contamination from the groundwater in the San Fernando Basin for public and environmental benefit.

Also enclosed is a fact sheet that describes the GSIS project and the various phases of construction. For more information, please feel free to contact me at (213) 367-1314 or at stephanie.spicer@ladwp.com. Additional information may also be found on the LADWP web site at www.ladwp.com/wells.

Sincerely,

Stephanie Spicer
Community Relations Office
Los Angeles Department of Water and Power

**PROPERTY OWNER'S AUTHORIZATION FOR TREE REMOVAL**

Date: 7/10/2013

(I/we) Saro Aharonyan (owner's name) (am/are) the legal owner(s)

of real property located at: 6823 Bellingham Ave (Street Address)

North Hollywood (City, State and Zip) and

(Mr./Ms.) _____ (agent's name) is acting

as (my/our) agent. (I/we) give (my/our) permission and have no objection to the removal of

1 (# of trees) unknown (species) trees.

Signature

Signature

GG/RL:dg
S:\UFD Website\Guidelines and Information\ Property Owner's Auth. for Tree Removal
Rev. 5/2006

### 8.3.3 Well Number: RT-MW-10 Location: Montague & Snowden

Construction Start Date: July 15, 2013
Construction Completed: November 19, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 26, 2013 | |
| Letters to 1,500' radius | July 3, 2013 | Mailed - Written information about upcoming well drilling construction. Sent in postcard format. |
| Notification to Immediate Area | July 8, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 4, 2013 | Hand delivered |
| Media | N/A | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**September 25, 2013** Neighbor called to inquire about process for filing a claim for his increased water and power bill. He said his bill has gone up due to our construction (i.e.: increased AC used due to closed windows (dust & noise) & increased watering to clean dust on his property. He was provided the number to the LADWP Claims Office.

Los Angeles Department of Water & Power

## Montague St & Snowden Ave in Arleta

**Groundwater Monitoring Well Installation**
**June 2013**
Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

7:00 a.m. to 7:00 p.m., Monday through Friday, for approximately 3 months.
Some overnight construction will be required. Advance notice will be provided to nearby residents.

**Instalación de Pozo de Monitoreo de Agua Subterránea** - junio 2013
Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

7:00 a.m. a 7:00 p.m., lunes a viernes, por aproximadamente 3 meses.
Construcción de noche será necesaria por unos días. Los residentes más cercanos al pozo recibirán aviso de ante mano.

## Montague St & Snowden Ave in Arleta

This project is one of 26 groundwater monitoring wells that LADWP is constructing in the San Fernando Valley. Groundwater samples obtained from the wells will be used for a comprehensive Groundwater System Improvement Study to develop systems for removing contamination from the groundwater and to protect the public health and the environment.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por LADWP en el Valle de San Fernando. Muestras de agua subterránea obtenidas de estos pozos serán utilizados para un estudio comprensivo para la mejora de aguas subterráneas para desarrollar sistemas para remover contaminación de las aguas subterráneas y proteger la salubridad pública y el medio ambiente.

**For Information/ Para Información:**
**213-367-1361**
**www.ladwp.com/wells**

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Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**at Montague St. west of Snowden Ave.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as July 15, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea en Montague St. al oeste de Snowden Ave.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 15 de julio, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Montague St. west of Snowden Ave.

September 4, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Montague St. west of Snowden Ave,** the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, September 9,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Ben Castellana, Contractor On-Site Supervisor (818) 371-5388.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Montague St. west of Snowden Ave

4 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Montague St. al oeste de Snowden Ave.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **lunes, el 9 de septiembre,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Ben Castellana, Supervisor del Sitio del Contratista al (818) 371-5388.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.4 Well Number: RT-MW-02 Location: Cantara & Wilkinson

Construction Start Date: July 18, 2013
Construction Completed: November 7, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 26, 2013 | |
| Letters to 1,500' radius | July 18, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 16, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 19, 2013 | Hand delivered |
| Media | N/A | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**July 17, 2013** Community Relations contacted 8161 Wilkinson to explain the purpose of the project and provide contact information.

**October 28, 2013** Neighbor reported porta-potties that had been knocked over and expressed concern about chemical hazard due to spill that came from porta-potty. G. Bartz responded to call and provided information regarding the biodegradable nature of the spilled liquid.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Cantara St. west of Wilkinson Ave.

July 18, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) is constructing a groundwater monitoring well in your area. Construction began on **July 18** on **Cantara St. just west of Wilkinson Ave.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea

## Cantara St. al oeste de Wilkinson Ave.

18 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) está construyendo un pozo de monitoreo de agua subterránea en su comunidad. La construcción comenzó el **18 de julio** en **Cantara St. al oeste de Wilkinson Ave.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Asuntos Comunitarios**
**(213) 367-1361**

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Cantara St. west of Wilkinson Ave.**

September 18, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Cantara St. west of Wilkinson Ave.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, SEPTEMBER 23,** as approved by the Los Angeles Police Commission.

Daytime Work Hours: 7:00 a.m. to 7:00 p.m.
**Overnight Work Hours: 7:00 p.m. to 7:00 a.m.**

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact the following:**

**4 pm to 11 pm - Jim Neff, LADWP Engineer (213) 792-5937**
**11 pm to 7 am - Raul Llamas, LADWP Engineer (213) 792-9550**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Cantara St. al oeste de Wilkinson Ave.**

18 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase crítica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Cantara St. al oeste de Wilkinson Ave.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **LUNES, el 23 de SEPTIEMBRE**, de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberias de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con los siguientes:**

**4 pm a 11 pm - Jim Neff, Ingeniero de LADWP (213) 792-5937**
**11 pm a 7 am - Raul Llamas, Ingeniero de LADWP (213) 792-9550**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.5 Well Number: RT-MW-05 Location: Laurelgrove & Stagg St.

Construction Start Date: August 5, 2013
Construction Completed: October 22, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 26, 2013 | See notes. |
| Letters to 1,500' radius | July 29, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 29, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 19, 2013 | Hand delivered |
| Media | N/A | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**July 24, 2013** G. Bartz contacted neighbor in property adjacent to construction site to notify him of the upcoming construction, provide information regarding the purpose of the groundwater monitoring well, and explain what the construction would look like.

**January 31, 2014** Responded to inquiry regarding expected construction completion date.

**February 12, 2014** Responded to complaint regarding clean up at construction site near

7831 Laurel Grove Ave. Cleanup was completed/addressed by the following morning

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation

## Laurelgrove Ave. at Stagg St.

July 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin **the week of August 5** on **Laurelgrove Ave. north of Stagg St.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Laurelgrove Ave. con Stagg St.

25 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **5 de agosto** en **Laurelgrove Ave donde se encuentra con Stagg St.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
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**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**Laurelgrove Ave. north of Stagg St.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as August 5, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea
## Laurelgrove Ave. al norte de Stagg St.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 5 de agosto, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Laurelgrove Ave. north of Stagg St.

September 18, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Laurelgrove Ave. north of Stagg St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, SEPTEMBER 23,** as approved by the Los Angeles Police Commission.

Daytime Work Hours: 7:00 a.m. to 7:00 p.m.
**Overnight Work Hours: 7:00 p.m. to 7:00 a.m.**

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, please contact the following:**

**4 pm to 11 pm - Jim Neff, LADWP Engineer (213) 792-5937**
**11 pm to 7 am - Raul Llamas, LADWP Engineer (213) 792-9550**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Laurelgrove Ave. al norte de Stagg St.

18 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Laurelgrove Ave. al norte de Stagg St.**., las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **LUNES, el 23 de SEPTIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con los siguientes:**

**4 pm a 11 pm - Jim Neff, Ingeniero de LADWP (213) 792-5937**
**11 pm a 7 am - Raul Llamas, Ingeniero de LADWP (213) 792-9550**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**

### 8.3.6 Well Number: RT-MW-03Location: Teesdale Ave N/O Cantara St.

Construction Start Date: August 5, 2013
Construction Completed: December 12, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | April 26, 2013 | See notes. |
| Letters to 1,500‘ radius | July 29, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 29, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 12, 2013 | Hand delivered |
| Media | N/A | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**August 9, 2013** Neighbor from 8240 Teesdale approached on-site staff to inquire if it was possible to reduce “No Parking” zone. Staff removed excess No Parking signs to allow for more parking. Neighbor was satisfied with resolution and thanked staff.

Neighbor from 8212 Teesdale complained to on-site staff that there was nowhere to park. He was upset that the street in front of his home had become a traffic lane because the parking had been eliminated.

**August 12, 2013** Community Relations Office followed up with 8212 Teesdale neighbor and explained the need to eliminate parking and provided an overview of schedule.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation

## Laurelgrove Ave. at Stagg St.

July 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin **the week of August 5** on **Laurelgrove Ave. north of Stagg St.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Laurelgrove Ave. con Stagg St.

25 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **5 de agosto** en **Laurelgrove Ave donde se encuentra con Stagg St.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

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Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**Laurelgrove Ave. north of Stagg St.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as August 5, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

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Los Angeles Department of Water & Power

# Construcción en Su Vecindad

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**Laurelgrove Ave. al norte de Stagg St.**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

## Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 5 de agosto, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Laurelgrove Ave. north of Stagg St.

September 18, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Laurelgrove Ave. north of Stagg St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, SEPTEMBER 23,** as approved by the Los Angeles Police Commission.

Daytime Work Hours: 7:00 a.m. to 7:00 p.m.
**Overnight Work Hours: 7:00 p.m. to 7:00 a.m.**

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, please contact the following:**

**4 pm to 11 pm - Jim Neff, LADWP Engineer (213) 792-5937**
**11 pm to 7 am - Raul Llamas, LADWP Engineer (213) 792-9550**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Laurelgrove Ave. al norte de Stagg St.

18 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Laurelgrove Ave. al norte de Stagg St.**., las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **LUNES, el 23 de SEPTIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con los siguientes:**

**4 pm a 11 pm - Jim Neff, Ingeniero de LADWP (213) 792-5937**
**11 pm a 7 am - Raul Llamas, Ingeniero de LADWP (213) 792-9550**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**

### 8.3.7 Well Number: RT-MW-01 Location: Beeman Ave N/O Blythe St.

Construction Start Date: August 5, 2013
Construction Completed: December 12, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | July 29, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 29, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | September 26, 2013<br>October 3, 2013 | Hand delivered; a second notification was delivered due to a change in the overnight schedule & contact. |
| Media | | None |

### Summary of Construction Inquiries -- Calls & Follow-up:

**July 29, 2013** Discussed project with a few of the neighbors during flyer distribution.

**September 17, 2013** Inquiry from resident at 7920 Beeman regarding overnight construction schedule and dust concerns. She was informed that the overnight would be scheduled in the coming weeks and that she would receive a notification in a door hanger the week prior to the start of the overnight construction.

**September 17, 2013** Call from Luis at the LA Regional Water Quality Board He received a call from 7920 Beeman and called to verify that this was LADWP's work. S. Spicer informed him that contact had already been made with that neighbor and we had addressed her inquiry.

**September 17, 2013** Neighbor at 7926 Beeman called with concerns about dust. Staff provided an air purifier that same day.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Beeman Ave. at Blythe St.

July 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin **the week of August 5** on **Beeman Ave. north of Blythe St.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Beeman Ave. con Blythe St.

25 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **5 de agosto** en **Beeman Ave donde se encuentra con Blythe St.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**Beeman Ave. north of Blythe St.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as August 5, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea
## Beeman Ave. al norte de Blythe St.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 5 de agosto, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Beeman Ave. north of Blythe St.

September 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Beeman Ave. north of Blythe St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, SEPTEMBER 30,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions/concerns during the overnight construction hours, contact**:

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, LADWP Engineer, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, LADWP Engineer, (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Beeman Ave. al norte de Blythe St.

25 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Beeman Ave. al norte de Blythe St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empezará tan pronto como el **LUNES, el 30 de SEPTIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas durante la construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, Ingeniero de LADWP, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, Ingeniero de LADWP, (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Tyrone Ave. at Saticoy St.

January 3, 2014

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Tyrone Ave. at Saticoy St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, JANUARY 6, 2014,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions/concerns <u>during the overnight construction hours</u>, contact**:

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, LADWP Engineer, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, LADWP Engineer, (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Tyrone Ave. con Saticoy St.**

3 de enero de 2014

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Tyrone Ave. donde se encuentra con Saticoy St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **LUNES, el 6 de ENERO,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas durante la construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, Ingeniero de LADWP, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, Ingeniero de LADWP, (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.8 Well Number: NH-MW-05 Location: Hamlin & Goodland Ave

Construction Start Date: August 5, 2013
Construction Completed: December 12, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500‘ radius | July 29, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | July 29, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | October 23, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**January 24, 2014** Received inquiry from local resident about when construction would be completed. Provided information on estimated completion date

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Hamlin St. at Goodland Ave.

July 25, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin **the week of August 5** on **Hamlin St. west of Gooland Ave.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Hamlin St. con Goodland Ave.

25 de julio de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **5 de agosto** en **Hamlin St. donde se encuentra con Goodland Ave.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**Hamlin St. west of Goodland Ave.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction will begin as early as August 5, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of he monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea
## Hamlin St. al oeste de Goodland Ave.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudi
agua subterránea que identificará las tecnologías necesarias para elimi
subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 5 de agosto, 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Hamlin St. west of Goodland Ave.

October 23, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Hamlin St. west of Goodland Ave.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, October 28, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact:**

| | |
|---|---|
| 7 a.m. to 11p.m. | Jim Neff at (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villa at (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Hamlin St. al oeste de Gooland Ave.

23 de octubre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Hamlin St. al oeste de Gooland Ave.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo comenzará tan pronto como el **lunes, el 28 de octubre de 2013,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para asuntos que requieren respuesta durante las horas de construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 a.m. a 11 p.m. | Jim Neff (213) 792-5937 |
| 11 p.m. a 7 a.m. | Jonathan Villa (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.3.9 Well Number: RT-MW-09 Location: Varna & Strathern St.

Construction Start Date: September 3, 2013
Construction Completed: November 7, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500‘ radius | September 4, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | August 30, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | October 23, 2013 | Hand delivered |
| Media | N/A | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**September 16, 2013** Complaint from neighbor regarding security guards She reported that the guard had invited friends over to socialize on-site over the weekend. National reported this to the security company and they informed National that the guard had since been terminated for other reasons.

**September 17, 2013** Follow-up with customer to relay information regarding the security guard

**September 19, 2013** Neighbor called to complain about the noise caused by construction. Staff responded immediately by provided additional sound barrier panels around the shaker and generator. A follow-up call was made to the neighbor.

**September 20, 2013** Staff conducted a follow-up visit to neighbor to ensure that the sound barriers were effective, and a sound reading was taken from insider her home. The reading was found to be 57db. Additional sound walls were installed to provide additional protection from the noise. She was informed of plans to use a quiet generator for pumping the well clean.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Varna Ave. at Strathern St.

August 30, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) is constructing a groundwater monitoring well in your area, on **Varna Ave. at Strathern St.** Construction was scheduled to begin the week of September 3, 2013. During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site received an additional notice before construction began.

Normal working hours are from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Varna Ave. con Strathern St.

30 de agosto de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad, en **Varna Ave donde se encuentra con Strathern St.** La construcción estaba programada comenzar la semana del 3 de septiembre, 2013. Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibieron un aviso adicional la semana antes de la construcción.

Las horas de trabajo son de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**

Los Angeles Department of Water and Power

# Construction in Your Neighborhood
# To start the week of September 3, 2013

### Groundwater Monitoring Well Installation
### on Varna Ave. at Strathern St.

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

## What to Expect during Construction

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad
# Comenzará la semana del 3 de septiembre, 2013

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**Varna Ave. donde se encuentra con Strathern St.**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

## Que Ocurrirá durante la Construcción

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Varna Ave. at Strathern St.

October 23, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on Varna Ave. at Strathern St. the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **Monday, October 28, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact:**

| | |
|---|---|
| 7 a.m. to 11p.m. | Jim Neff at (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villa at (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information, during normal business hours:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Varna Ave. at Strathern St.**

23 de octubre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Varna Ave. at Strathern St.** las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo comience tan pronto como el **lunes, el 28 de octubre de 2013,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberias de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para asuntos que requieren respuesta durante las horas de construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 a.m. a 11 p.m. | Jim Neff (213) 792-5937 |
| 11 p.m. a 7 a.m. | Jonathan Villa (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.4.0 Well Number: RT-MW-08 Location: Wicks St. SW/O Remick

Construction Start Date: September 16, 2013
Construction Completed: November 19, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | September 16, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | September 12, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | November 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**July 31, 2013** Email sent to local schools Polytechnic High School to inform Principal Bennett of upcoming construction and request feedback regarding potential impacts. Response received same day stating appreciation of notice.

**August 1, 2013** Email sent to local schools Byrd Middle School to inform Principal Hale of upcoming construction and request feedback regarding potential impacts. Response received same day stating appreciation of notice.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Wicks St. southwest of Remick Ave.

September 11, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. **Construction will begin the week of September 16, 2013 on Wick St. southwest of Remick Ave.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive an additional notice approximately one to two weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Wicks St al suroeste de Remick Ave.

11 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. **La construcción está programada comenzar tan pronto como el 16 de septiembre en Wicks St al suroeste de Remick Ave.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**WICKS AVE. southwest of REMICK ST.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

**Construction will begin as early as SEPTEMBER 16, 2013**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**WICKS AVE. al sudoeste de REMICK ST.**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas especificas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 16 de SEPTIEMBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 dias con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## WICKS AVE. southwest of REMICK ST.

November 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Wicks Ave. southwest of Remick St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, DECEMBER 2, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Jonathan Villanueva at (213) 792- 3504.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Wicks Ave. al sudoeste de Remick St.**

noviembre 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas que requiere construcción de noche. Para garantizar la estructura final del pozo en **Wicks Ave. al sudoeste de Remick St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **LUNES, el 2 de DICIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Jonathan Villanueva al (213) 792- 3504.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.4.1 Well Number: RT-MW-06 Location: Whitsett Ave S/O Saticoy

Construction Start Date: October 7, 2013
Construction Completed: October 2, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | October 1, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | September 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | December 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**May 21, 2013** Contacted property owners adjacent to construction site to notify them that the tree removal would be required and requested a signature on the tree removal authorization form

**June 20, 2013** Follow-up email to P. Ballard (property contact)

**June 21, 2013** Response via email from property owner S. Botsford stating that he was working on approval.

**June 26, 2013** Signed tree removal authorization form submitted by S. Botsford also requested to have LADWP replace removed trees. S. Spicer confirmed that we would be replacing removed trees.

**July 2, 2013** Email to Public Storage to obtain written tree trimming authorization.

**July 3, 2013** Follow-up email sent to Public Storage. Public Storage rep M. Kells responded and provided authorization via email.

**October 7, 2013** Outreach to P. Ballard to coordinate ingress & egress through Whitsett Driveway as some visual obstruction may be caused by construction site. Driveway on Whitsett is occasionally used by landscapers on Fridays between 9a and 4p. Though the use is infrequent, they can't discontinue use during our construction. They landscapers come as a crew, so they can coordinate the egress out of

| | |
|---|---|
| | the driveway with our on-site staff. Agreed to have on-site staff coordinate with landscapers upon arrival |
| **May 5, 2014** | P. Ballard called and emailed update on sidewalk and landscaping repairs. Project team advised that repairs would be made by the contractor, National, within approximately the next month. |

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation

## Whitsett Ave. at Saticoy St.

September 30, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. **Construction will start in early October 2013 on Whitsett Ave. between Saticoy St and Saticoy St. South.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive an additional notice a week before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea

## Whitsett Ave. at Saticoy St.

30 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. **La construcción está programada comenzar a principios de octubre 2013 en Whitsett Ave. entre Saticoy St. y Saticoy St. Sur.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional una semana antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**WHITSETT AVE. between Saticoy St. and Saticoy St. South**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

**Construction will begin as early as OCTOBER 7, 2013**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**WHITSETT AVE. entre Saticoy St. y Saticoy St. Sur**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 7 de OCTUBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Whitsett Ave. at Saticoy St.**

December 10, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Whitsett Ave. between Saticoy St. and Saticoy St. South,** the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, DECEMBER 16, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Jonathan Villanueva at (213) 792- 3504.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Whitsett Ave. y Saticoy St.**

10 de diciembre 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Angeles (LADWP) pronto llegará a una fase clave en la construcción del pozo de monitoreo de aguas subterráneas, lo que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **en Whitsett Ave. entre Saticoy St. y Saticoy St. Sur.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **LUNES, el 16 de DICIEMBRE de 2013,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese con Jonathan Villanueva al (213) 792- 3504.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

**PROPERTY OWNER'S AUTHORIZATION FOR TREE REMOVAL**

Date: JUNE 27, 2013

63 LCB LAND LLC [redacted] (LS) the legal owner(s)
(owner's name)

of real property located at: 7361 Laurel Canyon Blvd / 7502 Whitsett
(Street Address)

Los Angeles CA 91605 and
(City, State and Zip)

(Mr. ~~Ms.~~) Stephen F Botsford, President is acting
(~~agent's name~~)

as (~~my~~ our) agent. (I/we) give (my/our) permission and have no objection to the removal of + replacement of

ONE (1) Evergreen Pear (Pyrus Kawakami tree). AND
(# of trees) (species)

this tree must be replaced WITH AT LEAST A 24 inch Box size New tree Doubletree STAKE + the Irrigation must be hooked up.

Stephen F Botsford Pres
Signature

Signature

GG/RL:dg
S:\UFD Website\Guidelines and Information\ Property Owner's Auth. for Tree Removal
Rev. 5/2005

See Location of Picture ON ATTACHED Page


© 2013 Google

### 8.4.2 Well Number: RT-MW-07 Location: Webb N/O Lankershim

Construction Start Date: October 7, 2013
Construction Completed: October 2, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500‘ radius | October 1, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | September 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | November 13, 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

Los Angeles Department of Water and Power

## Groundwater Monitoring Well Installation
### Webb Ave. at Lankershim Blvd.

September 30, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. **Construction is scheduled to start in early October 2013 on Webb Ave. northwest of Lankershim Blvd.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive an additional notice a week before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Webb Ave. con Lankershim Blvd.

30 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada comenzar **a principios de octubre 2013 en Webb Ave. al nortoeste de Lankershim Blvd.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional una semana antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**WEBB AVE. northwest of LANKERSHIM BLVD.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

**Construction will begin as early as OCTOBER 7, 2013**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea
## WEBB AVE. al noroeste de LANKERSHIM BLVD.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas especificas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 7 de OCTUBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 dias con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Webb Ave. and Lankershim Blvd.

November 12, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure at **Webb Ave. and Lankershim Blvd.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **WEDNESDAY, NOVEMBER 13, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Jonathan Villanueva at (213) 792- 3504.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Webb Ave. and Lankershim Blvd.**

12 de noviembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Webb Ave. y Lankershim Blvd.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como **MIERCOLES, el 13 de NOVIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberias de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese Jonathan Villanueva al (213) 792- 3504.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.4.3 Well Number: NH-MW-08 Location: Lennox Ave S/O Vanowen

Construction Start Date: October 7, 2013
Construction Completed: November 7, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500' radius | October 1, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | October 4, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | November 2013 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Webb Ave. at Lankershim Blvd.

September 30, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. **Construction is scheduled to start in early October 2013 on Webb Ave. northwest of Lankershim Blvd.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive an additional notice a week before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Webb Ave. con Lankershim Blvd.

30 de septiembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) pronto construirá un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada comenzar **a principios de octubre 2013 en Webb Ave. al nortoeste de Lankershim Blvd.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional una semana antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

**Groundwater Monitoring Well Installation**
**WEBB AVE. northwest of LANKERSHIM BLVD.**

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

**Construction will begin as early as OCTOBER 7, 2013**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

## Construcción en Su Vecindad

**Instalación de Pozo de Monitoreo de Agua Subterránea**
**WEBB AVE. al noroeste de LANKERSHIM BLVD.**

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

## Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el 7 de OCTUBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto período durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

**Webb Ave. and Lankershim Blvd.**

November 12, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure at **Webb Ave. and Lankershim Blvd.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **WEDNESDAY, NOVEMBER 13, 2013** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions or concerns during the overnight construction hours, contact Jonathan Villanueva at (213) 792- 3504.**

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Webb Ave. and Lankershim Blvd.**

12 de noviembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Webb Ave. y Lankershim Blvd.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 dias, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como **MIERCOLES, el 13 de NOVIEMBRE,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el dia: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberias de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas o inquietudes que requieren respuesta durante las horas de construcción de noche, comuníquese Jonathan Villanueva al (213) 792- 3504.**

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.4.4 Well Number: NH-MW-07 Location: Greenbush S/O Bessemer

Construction Start Date: November 4, 2013
Construction Completed: October 8, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | August 7, 2013 | D. Christensen, S.Spicer & G. Reed prior to meeting with Erwin Elementary School Principal |
| Letters to 1,500‘ radius | October 28, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | October 28, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | January 17, 2014 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

**July 31, 2013** Email outreach to Erwin Elementary School Principal K. McClay.

**August 7, 2013** Meeting with Principal McClay, and email to Ararat Charter School.

**October 30, 2013** Greenbush Ave resident, G. Huerta, called to inquire about the specific well location. Informed him that it would be closer to Bessemer, about a block away from his home

**November 8, 2013** Complaints on-site received from several neighbors related to concerns related to neighbor with special needs that lives in the property adjacent to the well construction site. S. Spicer called neighbor and explained construction and she thanked crews for not blocking her driveway. She was given the direct line to the Community Relations Office. Fact sheets were also sent to the construction site so that the appropriate information and contact number would be provided to any other neighbors with concerns.

**January 2, 2014** Resident complaint regarding the sidewalk being blocked and wanted the traffic control to be removed. Sign was removed to resolve issue.

**January 6, 2014** Received call from resident at 6044 Greenbush Ave regarding coordination of her move. Drill rig was in front of her home and blocking the space that moving trucks would need. Resident Engineer contacted her and coordinated access for trucks.

**January 14, 2014** Overnight Construction notice e-mailed to Principals at Erwin Elementary School & Ararat Charter School

**January 29, 2014** Received call from resident at 6038 Greenbush Ave requesting final completion date. Returned her call and shared info regarding completion date and sound mitigation measures being implemented.

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Greenbush Ave. south of Bessemer St.

October 28, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin as early as **November 4** on the **east side of Greenbush Ave. just south of Bessemer St.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Greenbush Ave. al sur de Bessemer St.

28 de octubre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **4 de noviembre** en el lado **este de Greenbush Ave. al sur de Bessemer St.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Asuntos Comunitarios**
**(213) 367-1361**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

## Groundwater Monitoring Well Installation

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

## Greenbush Ave. south of Bessemer St.

**Construction will begin as early as mid-October 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks -- includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para a
aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

## Greenbush Ave. al sur de Bessemer St.

### Construcción comenzará a medios de octubre 2013, lo más temprano.

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto periodo durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Greenbush Ave. south of Bessemer St.

January 13, 2014

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Greenbush Ave. south of Bessemer St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, JANUARY 20, 2014,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions/concerns during the overnight construction hours, contact**:

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, LADWP Engineer, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, LADWP Engineer, (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Greenbush Ave. south of Bessemer St.

13 de enero de 2014

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Greenbush Ave. al sur de Bessemer St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **LUNES, el 20 de ENERO,** de acuerdo con la aprobación de la Comisión de la Policía de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas durante la construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, Ingeniero de LADWP, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, Ingeniero de LADWP, (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

### 8.4.5 Well Number: NH-MW-10 Location: Stagg W/O Broadleaf Ave

Construction Completed: October 22, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500‘ radius | November 12, 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | November 8, 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | January 17, 2014 | Hand delivered |
| Media | | None |

*Previously planned for construction at Stagg & Hazeltine Both residences immediately adjacent to the site had newborns and expressed concerns related to noise and vibration caused by the planned construction. These concerns were supported by neighbors and sent to Mayor's Office along with other elected officials for action. Project staff evaluated options for relocation due to sensitivities of the newborns in both homes. The new location was sited at Stagg just west of Broadleaf, about a block away from the original location.*

Note: Tree Removal Authorization Required for new site

**Summary of Construction Inquiries -- Calls & Follow-up:**

**September 12, 2013** Briefing provided to CD 6 regarding GSIS and site relocation for NH10

**September 19, 2013** Updated regarding relocation provided to Mayor's Office (Y. Farrow)

**September 24, 2013** Tree removal authorization form delivered to adjacent property

**October 2, 2013** Signed tree removal authorization form received

**October 30, 2013** Update on project relocation provided to neighbor (M. Dzhragatspanyan) adjacent to original well site (Stagg & Hazeltine)

**November 8, 2013** Update on construction start date provided to M. Dzhragatspanyan.

**November 11, 2013** Email from M. Dzhragatspanyan requesting street remained open to traffic.

| | |
|---|---|
| **November 12, 2013** | S. Spicer responded confirming that street would remain open to two-way traffic. |
| **January 24, 2014** | S. Spicer responded to two resident inquiries regarding overnight construction. Provided information on duration and purpose |
| **January 29, 2014** | S. Spicer received a complaint from resident at 13995 Stagg via Council District 6 Office regarding noise from overnight construction. Construction Manager responded stating that overnight work had been completed. He had also instructed the contractor to use portable generators to further reduce noise. |
| **February 14, 2014** | S. Spicer responded to inquiry from local neighbor, Mr. Onnik Balvan, regarding estimates for project completion and parking restoration. |
| **April 29, 2014** | S. Spicer received complaint from Ms. Jan Brown regarding generator running and left unattended with a large gas can next to it, at this well site. Staff responded to her on-site and explained that an LADWP Resident Engineer was at the site. He was parked in a mileage vehicle across the street from the generator under the shade. She was also provided an explanation about the remaining work and corresponding durations (total approximately 2 weeks). |

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation

## New Location: Stagg St. at Broadleaf Ave.

November 8, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin as early as **November 13** on the **north side of Stagg St. just west of Broadleaf Ave.** This is the new location of the well previously planned for construction at Stagg St. and Hazeltine Ave. earlier this year. During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive additional notice 1 to 2 weeks before construction begins.

Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for about two days to install the well casings. Notice of the one time over-night construction will be provided in advance to the nearby residents. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea

## Sitio Nuevo: Stagg St. y Broadleaf Ave.

8 de noviembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) va a construir un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada para comenzar tan pronto como el **13 de noviembre** en el lado **norte de Stagg St. al oeste de Broadleaf Ave.** Este es el sitio nuevo del pozo previamente planeado para construcción en Stagg St. donde se encuentra con Hazeltine Ave. Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará por un periodo de tres meses aproximadamente. Los vecinos más cercanos a la construcción recibirán un aviso adicional 1 a 2 semanas antes de la construcción.

Las horas de trabajo serán de 7:00 a.m. hasta las 7:00 p.m., de lunes a viernes. Construcción nocturna será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Los residentes de las áreas cercanas al pozo recibirán previo aviso de la fecha de la construcción nocturna. Durante este proceso continuaremos esforzándonos para reducir el ruido utilizando mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario clausurar el uso de la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Asuntos Comunitarios**
**(213) 367-1361**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

## Groundwater Monitoring Well Installation

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a conprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

## Stagg St. at Broadleaf Ave.

**Construction will begin as early as MONDAY, NOVEMBER 18, 2013.**

**Construction of each well is expected to last approximately 3 months. Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required for a short period during Phase 2 to stabilize the well.**

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

## Stagg St. con Broadleaf Ave.

**Construcción comenzará tan pronto como LUNES, el 18 de NOVIEMBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses. Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto periodo durante la Fase 2 para establecer el pozo.**

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Stagg St. west of Broadleaf Ave.

January 16, 2014

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Stagg St. just west of Broadleaf Ave.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **WEDNESDAY, JANUARY 22, 2014,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions/concerns <u>during the overnight construction hours</u>, contact**:

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, LADWP Engineer, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, LADWP Engineer, (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

## Stagg St. al oeste de Broadleaf Ave.

16 de enero de 2014

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Stagg St. al oeste de Broadleaf Ave.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **MIERCOLES, el 22 de ENERO,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas durante la construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, Ingeniero de LADWP, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, Ingeniero de LADWP, (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

September 24, 2013

Dear LADWP Customer:

**SUBJECT: Tree Removal Authorization Requested at 13981 Stagg St. for Construction of Groundwater Monitoring Well**

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your neighborhood beginning in early October 2013. The construction will last approximately 3 months and involves use of the sidewalk and parking lane on the north side of Stagg St. just west of Broadleaf Ave.

As part of the construction, LADWP is securing a permit to remove the two small trees in the parkway closest to Broadleaf Ave in front of your home at 13981 Stagg St. The two larger trees on the west side of your parkway will not be removed. Once the construction is completed, LADWP will replace the two small trees accordingly. We request written authorization from the property owner for this temporary tree removal to complete the permit application.

**Please complete and sign the enclosed Authorization Form, and return the signed form via fax to (213) 367-1434 or scan it and email it to stephanie.spicer@ladwp.com.**

Also enclosed is a fact sheet that describes the purpose of the well, the Groundwater System Improvement Study and the various phases of construction. Additional information regarding this project may also be found on the LADWP web site at www.LADWP.com/wells.

Feel free to contact me with any questions or concerns you may have about the upcoming construction.

Sincerely,

Stephanie Spicer
Community Relations Manager
Los Angeles Department of Water and Power
(213) 367-1314

Los Angeles Department of Water and Power

24 de septiembre, 2013

Estimado Cliente de LADWP:

**TEMA:** **Autorización parar Remover Arboles en frente de 13981 Stagg St. para la Construcción de un Pozo de Monitoreo de Aguas Subterráneas**

El Departamento de Agua y Energía de Los Angeles (LADWP) planea construir un pozo de monitoreo de aguas subterráneas en su vecindario empezando a principios de octubre 2013. La construcción durará aproximadamente 3 meses y requiere el uso de la acera y el carril a lado norte de Stagg St. al oeste de Broadleaf Ave.

Como parte de esta construcción, LADWP tendrá que obtener un permiso para remover los dos árboles pequeños más cercanos a Broadleaf Ave en frente de su hogar en 13981 Stagg St. Los dos árboles más grandes al lado oeste no serán removidos. Al completar la construcción, LADWP reemplazará los dos árboles. Le pedimos permiso por escrito del propietario para remover estos árboles temporalmente para completar el proceso de permiso.

**Favor de rellenar y firmar la Hoja de Autorización, y entregarla por fax a (213) 367-1434 o por correo electrónico a stephanie.spicer@ladwp.com.**

También hemos incluido en este paquete una hoja informativa que le provee información adicional acerca del propósito del pozo, el Estudio de Mejora del Sistema de Aguas Subterráneas, y las varias fases de construcción. Información adicional también se encuentra en el sitio Web de LADWP en www.LADWP.com/wells.

Por favor comuníquese conmigo si tiene alguna pregunta acerca de esta construcción.

Sinceramente,

Stephanie Spicer
Community Relations Manager
Los Angeles Department of Water and Power
(213) 367-1314

### 8.4.5 Well Number: NH-MW-09 Location: Tyrone Ave. at Covello St.

Construction Start Date: November 18, 2013
Construction Completed: November 24, 2014

| Activity | Date | Notes |
|---|---|---|
| Site Visit | | |
| Letters to 1,500‘ radius | November 2013 | Mailed - Written information about upcoming well drilling construction |
| Notification to Immediate Area | November 2013 | Hand delivered - Written notice of upcoming well drilling construction |
| Night Construction Notice | January 3, 2014 | Hand delivered |
| Media | | None |

**Summary of Construction Inquiries -- Calls & Follow-up:**

Los Angeles Department of Water and Power

# Groundwater Monitoring Well Installation
## Tyrone Ave. at Saticoy St.

November 14, 2013

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will be constructing a groundwater monitoring well in your area. Construction is scheduled to begin in **as early as MONDAY, NOVEMBER 18, 2013 on Tyrone Ave at Saticoy St.** During construction, street parking will be restricted in the areas closest to the construction site. Construction will last approximately 3 months. Neighbors nearest to the construction site will receive an additional notice a week prior to construction.

Typical construction hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with overnight construction required for about two days to install the well casings. Additional overnight work may be added to accelerate the project schedule. Efforts will be taken to reduce noise, including the use of sound control blankets and barriers. For the safety of the public, the sidewalk will be closed near the drill rig. This work will not affect your water or power service unless unforeseen circumstances require a service interruption.

During normal business hours, please contact the LADWP Community Relations Office at (213) 367-1361. For questions or concerns that required attention during the overnight construction, please contact Jonathan Villanueva at (213) 792- 3504.

The Los Angeles Department of Transportation will be assisting in facilitating traffic around the work area. Parking will be limited in the vicinity of the well construction. LADWP will coordinate construction activities to facilitate the ingress and egress needs of the neighboring properties.

This project is one of 26 groundwater monitoring wells that will be constructed by LADWP in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This will also allow LADWP to reduce the city's reliance on imported water purchased from the Metropolitan Water District and provide Los Angeles with a more stable and reliable source of water.

We appreciate your support and understanding as we work to build a better sustainable water supply for the City of Los Angeles.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# Instalación de Pozo de Monitoreo de Agua Subterránea
## Tyrone Ave. con Saticoy St.

14 de noviembre de 2013

Estimado Cliente de LADWP:

El Departamento de Agua y Energía de Los Ángeles (LADWP por sus siglas en inglés) está construyendo un pozo de monitoreo de agua subterránea en su comunidad. La construcción está programada comenzar tan pronto como **LUNES, 18 de NOVIEMBRE de 2013 donde Tyrone Ave. se encuentra con Saticoy St.** Estacionamiento será restringido en las áreas más cercanas a la construcción. La construcción durará aproximadamente tres meses. Los vecinos más cercanos a la construcción recibirán un aviso adicional la semana antes de construcción.

Las horas de trabajo normalmente serán de 7:00 a.m. a 7:00 p.m., de lunes a viernes. Construcción de noche será necesaria por aproximadamente dos días para la instalar forros dentro de los pozos. Construcción de noche adicional podrá ser requerida para acelerar la conclusión del proyecto. Tomaremos medidas para reducir el ruido incluyendo el uso de mantas de control de sonido y barricadas. Por motivos de seguridad pública será necesario cerrar la acera en el área del pozo. Este proyecto no afectará su suministro de agua o electricidad a menos que circunstancias imprevistas lo requieran.

Durante las horas normales, comuníquese con la Oficina de Relaciones Comunitarias de LADWP al (213) 367-1361. Para asuntos que requieren atención durante las horas de noche, comuníquese con Jonathan Villanueva al (213) 792- 3504.

El Departamento de Transporte de Los Ángeles facilitará el acceso de tráfico en el área de construcción. Estacionamiento será limitado en la zona de construcción. LADWP coordinará sus actividades para facilitar el ingreso y egreso de vehículos a los residentes de la zona inmediata.

Este proyecto es uno de 26 pozos de monitoreo de agua subterránea que serán construidos por el LADWP en varias zonas del Valle de San Fernando Este. Estos pozos serán utilizados para obtener información para un estudio comprensivo para la mejora de aguas subterráneas en el Valle de San Fernando. Este estudio resultará últimamente en proyectos que removerán la contaminación de las aguas subterráneas para el mejoramiento del medio ambiente. Esto también permitirá a LADWP reducir la dependencia de la ciudad en aguas importadas compradas del Metropolitan Water District y proveerá a Los Angeles con un suministro de agua más estable y fiable.

Apreciamos su apoyo y su comprensión mientras trabajamos para sustentar y mejorar los suministros de agua para la Ciudad de Los Ángeles.

**Para más información:**
**LADWP Oficina de Relaciones Comunitarias**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water & Power

# Construction in Your Neighborhood

## Groundwater Monitoring Well Installation
## TYRONE AVE. at SATICOYST.

LADWP will be constructing 26 groundwater monitoring wells in various areas of the east San Fernando Valley. These wells will be used to gather data for a comprehensive Groundwater System Improvement Study which will identify the technologies necessary for removing contamination from the San Fernando Basin groundwater.

Water samples will be collected from the monitoring wells to analyze the contamination in the groundwater and determine the nature and extent of the pollution. The location of each well has been selected to measure water quality along specific groundwater flow paths which lead toward nearby LADWP well fields. The planned monitoring wells will be used for water testing only and will not be used to supply water to LADWP customers. Water samples may be taken from these wells on a quarterly basis.

This study will ultimately result in projects which will remove contamination from the groundwater for the betterment of the environment. This program also ensures that local groundwater resources remain available to meet the needs of the City.

# What to Expect during Construction

**Construction will begin as early as MONDAY, NOVEMBER 18, 2013**

**Construction of each well is expected to last approximately 3 months.** Normal working hours will be from 7:00 a.m. to 7:00 p.m., Monday through Friday, with some overnight construction required during Phase 2 to stabilize the well. Additional overnight construction may be added to accelerate the project schedule.

**Equipment** used for this process will include a drill rig, support trucks, and waste storage containers placed within proximity of the monitoring well location.

**Street parking** will be restricted in areas closest to the construction site. For the safety of the public, the sidewalk will be closed near the drill rig.

Construction will not affect your water or power service unless unforeseen circumstances require a service interruption.

**Phase 1: Well Drilling**
Duration: 2 months
Crews will set-up the construction area and begin drilling at the well site. Sound barriers will be installed to suppress the construction noise as much as possible.

**Phase 2: Installation of Well Casing**
Duration: 1 to 2 weeks – includes 2 to 4 days of overnight work.
Installation of the well casing requires continuous construction, including night work, to ensure the stability of the drilled borehole.

**Phase 3: Installation of Well Pumps**
Duration: 2 to 3 weeks
This is the final phase of construction. Large equipment will be removed. Smaller trucks will be utilized as crews complete the top of the well to make it flush with the ground surface. Street parking and sidewalks will be reopened to the public.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water & Power

# Construcción en Su Vecindad

## Instalación de Pozo de Monitoreo de Agua Subterránea TYRONE AVE. donde se encuentra con SATICOYST.

LADWP construirá 26 pozos de monitoreo de aguas subterráneas en diversas áreas del este del valle de San Fernando. Estos pozos se utilizarán para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea que identificará las tecnologías necesarias para eliminar la contaminación de las aguas subterráneas de la cuenca de San Fernando.

Muestras de agua serán recolectadas de los pozos de monitoreo para analizar la contaminación en las aguas subterráneas y determinar la naturaleza y extensión de la contaminación. La ubicación de cada uno también ha sido seleccionada para medir la calidad del agua a lo largo de rutas específicas del flujo de agua subterránea que conducen hacia campos de pozos cercanos de LADWP. Los pozos de monitoreo solamente se utilizarán para muestras y no se utilizará para servir agua a los clientes de LADWP. Se tomarán muestras de agua de estos pozos trimestralmente.

Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

# Que Ocurrirá durante la Construcción

**Construcción comenzará tan pronto como el LUNES, 18 de NOVIEMBRE de 2013.**

**Construcción de cada pozo durarán aproximadamente 3 meses.** Horas típicas de construcción serán de 7 a.m. a 7 p.m., lunes a viernes, con construcción de noche necesario por un corto periodo durante la Fase 2 para establecer el pozo. Construcción de noche adicional podrá ser requerida para acelerar la conclusión del proyecto.

**Equipo** utilizado en este proceso incluyen un equipo de perforación, camiones y recipientes de almacenamiento ubicados en las cercanías del pozo.

**Estacionamiento** en la calle será restringido en las áreas más cercanas a la construcción. Para la seguridad del público, se cerrará la acera cerca del equipo de perforación.

La construcción no afectará sus servicios de electricidad y agua, a no ser que circunstancias no previstas requieran una interrupción de servicio.

**Fase 1: Perforación de Pozo**
Duración: 2 meses
Equipos se introducirán en el sitio de construcción para empezar la perforación del pozo. Se instalarán barreras de sonido para eliminar el ruido de la construcción en la medida de lo posible.

**Fase 2: Instalación del Revestimiento del Pozo**
Duración: 1 a 2 semanas – incluye 2 a 4 días con construcción de noche
Instalación del revestimiento del pozo requiere construcción continua, incluyendo trabajo de noche, para garantizar la estabilidad de la perforación.

**Fase 3: Instalación de Bomba de Pozo**
Duración: 2 a 3 semanas
Esta es la fase final de la construcción. Los equipos grandes serán removidos. Se utilizarán camiones pequeños para completar la tapa del pozo para nivelarla con la superficie de la tierra. El estacionamiento y la acera se abrirán para el público.

www.LADWP.com/wells
(213) 367-1361

Los Angeles Department of Water and Power

# OVERNIGHT CONSTRUCTION NOTICE

## Tyrone Ave. at Saticoy St.

January 3, 2014

Dear Valued LADWP Customer:

The Los Angeles Department of Water and Power (LADWP) will soon be arriving at a key construction phase of the groundwater monitoring well installation, which will require overnight construction. To secure the final well structure on **Tyrone Ave. at Saticoy St.**, the working hours for this project will be temporarily extended to include night work for approximately 2 to 4 days, barring any unforeseen circumstances. We expect this work to begin as soon as **MONDAY, JANUARY 6, 2014,** as approved by the Los Angeles Police Commission.

| | |
|---|---|
| Daytime Work Hours: | 7:00 a.m. to 7:00 p.m. |
| **Overnight Work Hours:** | **7:00 p.m. to 7:00 a.m.** |

The overnight work hours will be used to install PVC pipes into the drilled borehole and backfill the borehole with sand and cement slurry. We will continue our efforts to reduce the noise, including the use of sound control blankets and barriers.

**For questions/concerns during the overnight construction hours, contact**:

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, LADWP Engineer, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, LADWP Engineer, (213) 792-3504 |

This well will be used to gather data for a comprehensive Groundwater System Improvement Study. This study will ultimately result in the construction of facilities that will remove the contamination from the local groundwater to protect the environment and the public health. This program also ensures that local groundwater resources remain available to meet the needs of the City.

We appreciate your patience and support during the construction of this critical monitoring well.

**For more information:**
**LADWP Community Relations Office**
**(213) 367-1361**
**www.LADWP.com/wells**

Los Angeles Department of Water and Power

# AVISO DE CONSTRUCCION DE NOCHE

**Tyrone Ave. con Saticoy St.**

3 de enero de 2014

Estimado Cliente de LADWP:

El Departamento de Agua y Energia de Los Angeles (LADWP) pronto llegará a una fase critica en la construcción del pozo de monitoreo de aguas subterráneas que requerirá la construcción de noche. Para garantizar la estructura final del pozo en **Tyrone Ave. donde se encuentra con Saticoy St.**, las horas de trabajo para este proyecto se extenderán temporalmente para incluir el trabajo nocturno por aproximadamente 2 a 4 días, impidiendo circunstancias imprevistas. Esperamos que este trabajo empiece tan pronto como el **LUNES, el 6 de ENERO,** de acuerdo con la aprobación de la Comisión de la Policia de Los Angeles.

| | |
|---|---|
| Horas de trabajo el día: | 7:00 a.m. a 7:00 p.m. |
| **Horas de trabajo de noche:** | **7:00 a.m. a 7:00 p.m.** |

Las horas de trabajo de noche se utilizarán para instalar tuberías de PVC en el pozo perforado y rellenar la perforación con una mezcla de cemento y arena. Continuaremos nuestros esfuerzos para reducir el ruido, incluyendo el uso de mantas y barreras para el control de sonido.

**Para preguntas durante la construcción de noche, comuníquese con:**

| | |
|---|---|
| 7 p.m. to 11 p.m. | Jim Neff, Ingeniero de LADWP, (213) 792-5937 |
| 11 p.m. to 7 a.m. | Jonathan Villanueva, Ingeniero de LADWP, (213) 792-3504 |

Este pozo se utilizará para recopilar datos para un estudio comprensivo de mejora de sistema de agua subterránea. Este estudio será resultará en la construcción de instalaciones que eliminarán la contaminación de las aguas subterráneas locales para proteger el medio ambiente y la salud pública. Este programa también garantiza que los recursos de aguas subterráneas locales permanecerán disponibles para satisfacer las necesidades de la ciudad.

Apreciamos su paciencia y apoyo durante la construcción de este pozo de monitoreo.

**Para más información:**
**Oficina de Relaciones Comunitarias de LADWP**
**(213) 367-1361**
**www.LADWP.com/wells**

# Section 9

# Public Information Repository

**Section 9.0** – Information Repository Locations and Updates

The City of Los Angeles Panorama City Public Library is a new public repository site established for program information for the GSIS project.

**Panorama City Public Library**
14345 Roscoe Boulevard
Panorama City, CA 91402-4297
818-894-4071

LADWP added the May 2015 CIP materials to the Public Information Repositories. There is an existing Information Repository for the San Fernando Basin Superfund Site, which provides additional background information for the GSIS.

Duplicate information was placed in three USEPA-established San Fernando Basin Superfund program public information repositories:

City of Burbank Public Library
110 North Glenoaks Street
Burbank, CA 91502
818-238-5880

City of Glendale Public Library
222 East Harvard Street
Glendale, CA 91205
818-548-2021

City of Los Angeles Technical Central Library
630 West 5th Street
Los Angeles, CA 90071
213-228-7216

LADWP also provided duplicate materials to USEPA, which maintains a collection of documents at:

Superfund Records Center
Mail Stop SFD-7C
95 Hawthorne Street, Room 403
San Francisco, CA 94105
415-820-4700

# Appendices

# Appendix A-1: Monitoring Well Installation Summary

| Sequence | Well Number | Location | Start Date | Letters to 1500' Radius | Doorhanger Notices to Immediate Area | Night Construction Notice | Completion Date | Council Office | Neighborhood Council |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TJ-MW-06 | Stanwin & Wentworth | 4/6/2012 | 1/15/2012 | 3/30/2012 | 6/5/2012 | 9/2014 | 6 | Arleta NC |
| 2 | TJ-MW-10 | Bracken & Lev | 9/3/2012 | 8/2012 | 8/2012 | 10/2012 | 9/2014 | 6 | Arleta NC |
| 3 | TJ-MW-08 | Gullo & Chase | 9/13/2012 | 5/2012 | 5/2012 | 11/13/2012 | 9/2014 | 6 | Arleta NC |
| 4 | TJ-MW-11 | Sharp & Bronwich | 2/4/2013 | 1/2013 | 1/2013 | 3/2013 | 9/2014 | 6 | Arleta NC |
| 5 | TJ-MW-14 | Correnti & Haddon | 2/13/2013 | 2/6/2013 | 2/6/2013 | 4/16/2013 | 9/2014 | 7 | Pacoima NC |
| 6 | RT-MW-04 | Vantage & Stagg | 4/1/2013 | 2/21/2013 | 2/2013 | 4/26/2013 | 9/2014 | 2 | NoHo Northeast NC |
| 7 | NH-MW-06 | St. Clair & Hart | 4/29/2013 | 4/17/2013 | 4/17/2013 | 5/2/2103 | 9/2014 | 2 | NoHo Northeast NC |
| 8 | TJ-MW-07 | Laurel Canyon & Tonopah | 5/9/2013 | 4/30/2013 | 5/3/2013 | 7/3/2013 | 9/2014 | 2 | NoHo Northeast NC |
| 9 | TJ-MW-13 | Glamis & Vena | 6/24/2013 | 5/15/2013 | 6/21/2013 | 7/25/2013 | 9/2014 | 6 | Arleta NC |
| 10 | TJ-MW-12 | Amboy & Pierce | 7/15/2013 | 7/3/2013 | 7/8/2013 | 10/28/2013 | 9/2014 | 7 | Pacoima NC |
| 11 | NH-MW-11 | Bellingham Ave N/O Vanowen Street (REV) | 7/15/2013 | 7/3/2013 | 7/8/2013 | 9/11/2013 | 11/19/2014 | 2 | Mid-town North Hollywood NC |
| 12 | RT-MW-10 | Montague St W/O Snowden Ave (REV) | 7/15/2013 | 7/3/2013 | 7/8/2013 | 9/4/2013 | 11/19/2014 | 6 | Arleta NC |
| 13 | RT-MW-02 | Cantara St W/O Wilkinson Ave | 7/18/2013 | 7/18/2013 | 7/16/2013 | 9/19/2013 | 11/7/2014 | 2 | NoHo Northeast NC |
| 14 | RT-MW-05 | Laurelgrove Ave N/O Stagg St (REV) | 8/5/2013 | 7/29/2013 | 7/29/2013 | 9/19/2013 | 10/22/2014 | 2 | NoHo Northeast NC |
| 15 | RT-MW-03 | Teesdale Ave N/O Cantara St | 8/5/2013 | 7/29/2013 | 7/29/2013 | 9/12/2013 | 12/12/2014 | 2 | NoHo West NC |
| 16 | RT-MW-01 | Beeman Ave N/O Blythe St (REV) | 8/5/2013 | 7/29/2013 | 7/29/2013 | 9/26/2013 & 10/3/2013 | 12/12/2014 | 2 | NoHo West NC |
| 17 | NH-MW-05 | Hamlin St W/O Goodland Ave (REV) | 8/5/2013 | 7/29/2013 | 7/29/2013 | 10/23/2013 | 12/12/2014 | 2 | Greater Valley Glen NC |
| 18 | RT-MW-09 | Varna Ave & Strathern St (REV) | 9/3/2013 | 9/4/2013 | 8/30/2013 | 10/23/2013 | 11/7/2014 | 6 | Panorama City |
| 19 | RT-MW-08 | Wicks St SW/O Remick Ave | 9/16/2013 | 9/16/2013 | 9/12/2013 | 11/2013 | 11/19/2014 | 6 | Sun Valley Area NC |
| 20 | RT-MW-06 | Whitsett Ave S/O Saticoy St | 10/7/2013 | 10/1/2013 | 9/2013 | 12/2013 | 10/2/2014 | 2 | N/A |
| 21 | RT-MW-07 | Webb Ave N/O Lankershim St (REV) | 10/7/2013 | 10/1/2013 | 9/2013 | 11/13/2013 | 10/2/2014 | 6 | NoHo Northeast NC |
| 22 | NH-MW-08 | Lennox Ave S/O Vanowen St | 10/7/2013 | 10/1/2013 | 10/4/2013 | 11/2013 | 11/7/2014 | 6 | Van Nuys NC |
| 23 | NH-MW-07 | Greenbush Ave S/O Bessemer (REV) | 11/4/2013 | 10/28/2013 | 10/28/2013 | 1/17/2014 | 10/8/2014 | 2 | Greater Valley Glen NC |
| 24 | NH-MW-10 | Stagg St & Broadleaf (REV) | 11/11/2013 | 11/12/12013 | 11/8/2013 | 1/17/2014 | 10/22/2014 | 6 | Panorama City |
| 25 | NH-MW-09 | Tyrone Ave & Covello St (REV) | 11/18/2013 | 11/2013 | 11/2013 | 1/3/2014 | 11/24/2014 | 6 | Van Nuys NC |

**Monitoring Well Installation Summary (March 2015)**

# Appendix A-2: Groundwater System Improvement Study

In order to fully understand the contamination issue and the migration of the pollution plumes, the LADWP has conducted a comprehensive groundwater study for the Basin. The study was a necessary step to evaluate the groundwater quality in the Basin and recommend treatment options to maximize the utility of the groundwater supply.

**Groundwater Monitoring Wells Project Profile**

In order to document the precise flow patterns and the content of the underground water, the LADWP has installed 26 new groundwater monitoring wells, with depths of up to 1,000 feet.

Collection and analysis of water samples from these wells has enabled the LADWP to compile data needed to determine the nature and extent of the groundwater contamination and select the appropriate remediation methods. The wells are part of a larger long-term LADWP program to develop projects which will recover the City's use of the groundwater stored in the San Fernando Valley Groundwater Basin. These monitoring wells are for water testing only and will not be used to supply the City's water needs.

The installation of the 26 new groundwater monitoring wells spanned from approximately May 2011 through February 2013. The majority of the wells are located in residential areas of the Northeast San Fernando Valley, in Council Districts 2, 6 and 7, including the communities of Arleta, Sun Valley, North Hollywood, Panorama City and Van Nuys. The testing of water from these wells occurred quarterly until 2015.

Each individual well took two to four months for construction and operational integrity. Work hours generally ranged between 7:00 a.m. and 7:00 p.m., Monday through Friday, with overnight construction for one period of 24-hours required for each well to stabilize the walls of the wells.

The duration to complete the 26 wells took approximately 20 months with multiple locations under construction at the same time.

**Purpose of Monitoring Groundwater Wells**

Again, the collection and analysis of water samples from these wells has enabled LADWP to compile data needed to determine the nature and extent of groundwater contamination and select the appropriate remediation methods. The wells are part of a larger long-term LADWP program to develop projects, which will recover the City's use of the groundwater stored in the San Fernando Groundwater Basin.

Currently, only about 11% of the City's water supply comes from our local groundwater sources. These wells are for water testing only and will not be used for treatment or to supply the City's water needs.

**Community Benefit of the Monitoring Groundwater Wells**

Cleanup of the contaminated San Fernando Groundwater Basin will allow the expansion of groundwater storage, increase the availability of the City's local water resources, and reduce Los Angeles' dependency on expensive imported sources of water to ensure a sustainable supply to meet future needs.

Monitoring information data alsos provide substantiation for cost reimbursement. Programs such as this groundwater monitoring wells project demonstrates the LADWP and the City's commitment to environmental stewardship and to addressing citizen concerns regarding environmental and health issues in their communities. Increasing the use of our local groundwater supplies also results in lower water utility bills for our customers.

**Monitoring Groundwater Wells Construction Schedule and Impacts**

Program construction commenced with four wells in the area represented by City Council District 6.

Each well took two to four months for construction and operational integrity and had five phases of construction. Work hours generally ranged between 7 AM and 7 PM, Monday through Friday, with overnight construction for one period of 24-48 hours required for each well.

Construction impacts addressed included traffic disruption, accessibility, reduced parking, noise, vibration and air quality. Utility services were not interrupted during construction.

Groundwater System Improvement Study (GSIS): LADWP conducted a comprehensive groundwater study for the Basin. This study was a necessary step to evaluate the groundwater quality in the Basin and recommend treatment options to maximize the utility of the groundwater supply.

| | |
|---|---|
| -Overall Schedule: | 6 year plus plan |
| -Budget: | Approximately $10 million (LADWP funded) |
| -Resources: | LADWP served as contract manager and administrator |
| -Benefit: | Provide vital information to develop a long-term strategy to remediate groundwater contamination in the San Fernando Basin |

Monitoring Well Drilling Contract: LADWP installed 26 new monitoring wells throughout the Basin to provide water quality information necessary for the Groundwater System Improvement Study.

-Schedule: Construction contract awarded in late 2011, contract term was approximately 6 years.
-Budget: Approximately $7.5 million
-Resources: LADWP served as contract manager and administrator.
-Benefit: The monitoring wells can be routinely sampled during and after the GSIS to provide vital information on groundwater contaminants and their concentration levels.

Interim Wellhead Treatment: LADWP installed interim treatment for select wellheads in the Tujunga Well Field in order to maintain groundwater pumping production. An amount of $3 million was included in the planned budget to cover this work.

**Expanding Groundwater Storage**

LADWP is investigating opportunities for increased storage of groundwater creating a cost-effective, environmentally friendly reserve of water resources in case of extreme drought or other emergencies. Currently, the City of Los Angeles has significant amounts of stored groundwater in the San Fernando Basin. However, contamination restricts the ability to effectively utilize this resource. As a result, it is critical for L.A. to invest in a long-term plan for expanding our storage capacity and ensuring a sustainable source for the future.

Explore Opportunities for Groundwater Storage along the Los Angeles Aqueduct: As part of a proposed study of the impact of climate change on our water system, LADWP will examine opportunities for increased groundwater storage in the Owens Valley and the Antelope Valley. LADWP will also continue to engage in the groundwater rights adjudication process underway in the Antelope Valley.

Pursue Storage project in the Los Angeles County Water Basin: LADWP is investigating a groundwater conjunctive use storage project in the LA County groundwater basins. This project would enable LADWP to store significant amounts of water during periods of drought or emergency.

Los Angeles Aqueduct and California Aqueduct Interconnection: LADWP is planning to construct an interconnection between the Los Angeles Aqueduct and the California Aqueduct, located where the two aqueducts intersect in the Antelope Valley. The interconnection will allow the water transfers or exchanges, and could be used to help move water to facilitate groundwater storage opportunities.

**Utilize Recycled Water for Groundwater Replenishment**

Advanced treated recycled water can be sent to spreading basins to percolate underground and become part of the City's groundwater system for later use. This process-also termed groundwater replenishment-is a proven alternative for expanding locally produced, sage, high quality drinking water. The process has been successfully implemented in Orange County, CA Australia, and Singapore, and is being considered in other U.S. and worldwide locations.

In 1990, the LADWP began developing what was known as the East Valley Water Recycling Project, designed to deliver tertiary treated recycled water from the Donald C. Tillman Water Reclamation Plant for groundwater replenishment in the Hansen Dam Spreading Grounds area located in the San Fernando Valley. The full project was never implemented and the LADWP focused on using the Tillman Plant and related facilities to deliver recycled water for irrigation and industrial uses, rather than pursuing groundwater replenishment.

The critical water storage facing Los Angeles today makes it imperative that the City revisit this strategy, understanding that this initiative will require extensive public education, as well as thorough discussion and vetting through a public process. The public acceptance and technologies feasibility of Orange County's groundwater replenishment program demonstrates that this is a viable, long-term supply solution.

**Initiate Stakeholder Planning Process:** LADWP has engaged stakeholders in analyzing alternatives necessary for maximizing recycled water. These alternatives include implementing groundwater recharge with advanced treatment in the San Fernando Valley, as well as expanding the purple pipe system to supply recycled water for irrigation and industrial uses.

**Upgrade Tillman Wastewater Treatment Plant**: Groundwater replenishment will require upgrading the Tillman Plant with state-of-the-art, advanced treatment capability similar to the Orange County Water District's recently implemented Groundwater Replenishment System, which has received widespread support. Advanced treatment would be constructed at the Tillman Plant, and highly treated wastewater would be piped to spreading basins for groundwater recharge.

**Hansen Spreading Grounds Enhancement Project:** LADWP has entered into Agreement No. 47739 to share the costs of the construction of the Hansen Spreading Grounds Project with the Los Angeles County Flood Control District. The project will increase the capacity and efficiency of the spreading grounds by: 1) combining and deepening the existing basins, and 2) installing and building a new rubber dam, intake structure, control house, and upgrading the telemetry system. The Los Angeles Board of Supervisors approved the agreement on

March 11, 2008, and the LADWP Board of Commissioners approved it on April 1, 2008.

The District has completed the design and specifications for the project and is prepared to move forward. There are some budget limitations, but the goal is to bring the project to reality. The project is conservatively estimated to result in additional capture and recharge of the approximately 1,200 AFY at the Hansen Spreading Grounds.

-Schedule: Should take 18 months from time of initiation
-Budget: Up to $15 million-shared by LADWP and the LA County Flood Control District
-Resources-Los Angeles County Flood Control district is the project manager
-Potential Water Savings: Capture of an additional 1,200 to 3,000 AFY of stormwater

**Tujunga Spreading Grounds Enhancement Project:** This project proposes to deepen the spreading basins, increase their storage capacity, replace the existing diversion structure with two diversion structures, and add remote automation of the operating structures.

-Schedule: Planning, design and construction 18 months to 36 months
-Budget: $1.3 million for design and $24 million for construction (funded by LADWP)
-Resources: LADWP will be the project manager
-Potential Water Savings: Capture of an additional 8,000 to 12,000 AFY of stormwater

**Pacoima Spreading Grounds Enhancement Project:** This project proposes to deepen the spreading basins, increase their storage capacity, replace existing diversion structure, and add remote automation of the operating structures.
-Schedule: Planning, design and construction 18 months to 36 months
-Budget: Approximately $1.3 million for design, $20 million for construction (LADWP may provide some funding for this project)
-Resources: Los Angeles County Flood Control District will be the project manager
-Potential Water Savings: Capture of an additional 1,500 to 3,000 AFY of stormwater

# Appendix A-3: Innovative Technology to be Utilized in Groundwater Monitoring

The LADWP has implemented the most advanced groundwater water quality testing and pumping technology in the operation of the monitoring wells planned for the San Fernando Valley Groundwater Basin.

**Zone Isolation Sampling Technologies (ZIST™)**

***ZIST eliminates drawdown, and reduces purge volume as a result of sampling mechanism. When 3-5 wet casing volumes are required, purge volume is reduced by as much as 60% by ZIST displacement systems.***

Zone Isolation Sampling Technologies (ZIST)™ In-Line Systems (patent pending) isolate the well screen to improve data quality, minimize cost, and reduce sampling time. BESST's pumps dock with the ZIST™ Well Screen Receptacle located between the well screen and riser pipe and draw samples only from the well screen.

For 'no-drawdown' low-flow sampling and fast parameter stabilization, pumps do not draw stagnant water from the riser pipe above the screen. Miniaturization of well systems reduces the cost of system components, drilling, installation, and operation over time.

ZIST™ Wells provide verifiable isolation of the well screen when the pump is docked in the Well Screen Receptacle located between the well screen and riser pipe. The pump can easily be removed for maintenance, pumping tests, or use of other monitoring devices.

ZIST Features:
ZIST System: 2 inch pump with receptacle
Slotted Screen Bentonite Pump & Receptacle
Docked Sand

866.298.8701 / www.besstinc.com
(Patent Pending)

-Zone Isolation Sampling Technology -
New Well Installation or Retrofit Existing
Wells: 1”, 2” or 4” wells
Single and Multi-level Applications
Isolate Passive Diffusion Bags
--Rated the highest overall score for efficiency, usability, durability and cost in a multi-level comparability study funded by the USACE 06
-A Revolutionary Groundwater Monitoring System
-Pump Isolates Well Screen

-Purge and Sample Well Screen Only
-No Drawdown Monitoring
-Accurate VOC Samples
-Pump Sizes 0.75” or 1.75” OD
-3,000-Foot Lift Capacity
-30-year Pump Warranty

## Zone Isolaton Sampling Technologies (ZIST™)

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ZIST™ Wells provide verifiable isolation of the well screen when the pump is docked in the Well Screen Receptacle located between the well screen and riser pipe. The pump can easily be removed for maintenance, pumping tests, or use of other monitoring devices.ZIST Features.

ZIST System: 2 inch pump with receptacle

BESST INC.
GLOBAL SUBSURFACE TECHNOLOGIES

*A Revolutionary Groundwater Monitoring System*

# You Can't RE-ZIST The ZIST!

## -Zone Isolation Sampling Technology -

Pump Isolates Well Screen

Purge and Sample Well Screen Only

No Drawdown Monitoring

Accurate VOC Samples

Pump Sizes 0.75" or 1.75" OD

3,000-Foot Lift Capacity

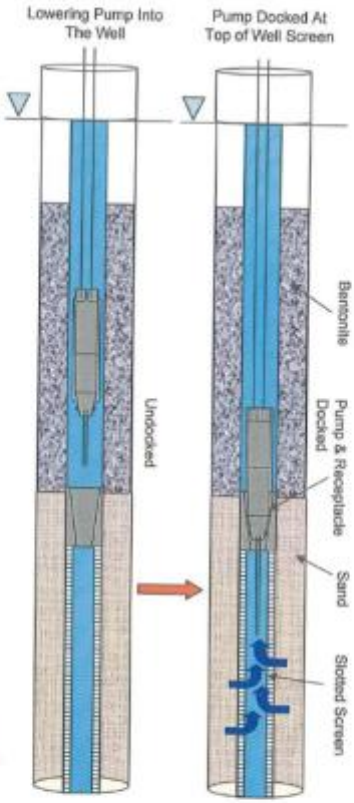
30-year Pump Warranty

*New Well Installation or Retrofit Existing Wells: 1", 2" or 4" wells*

*Single and Multi-level Applications*

*Isolate Passive Diffusion Bags*

*--Rated the highest overall score for efficiency, usability, durability and cost in a multi-level comparability study funded by the USACE 06'--*




**866.298.8701 / www.besstinc.com**

**(Patent Pending)**

# Appendix A-4: Previous Monitoring Efforts

The LADWP, as well as other organizations have previously installed water quality monitoring wells in the San Fernando Valley in order to access groundwater for testing and for calculating water flow patterns. From 1991 to 2013, Honeywell installed 65 groundwater monitoring wells in the valley in order to capture data and information that will assist in remediation efforts.

Honeywell has been earmarked as a company that in the past might have had some responsibility for the contamination.

The LADWP also has been testing its wells and has installed 78 monitoring wells in order that underground flow patterns, as well as contamination levels can be documented and remediation plans developed.

# Appendix A-5: Well Construction and Permitting Process

## Well Construction Process and Duration of Phases

**Phase 1: Mobilization Duration:** 2 weeks
- The drill rig and other construction equipment set up at the worksite
- Sections of the sidewalk closed off for public safety
- Reduced street parking
- Light truck traffic

**Phase 2: Pilot hole drilling Duration:** 4 weeks
- Construction noise and vibration from drilling; mufflers, sound barriers and other noise reduction equipment used to reduce noise when possible.
- Driveways may be temporarily blocked; on-site foreman to maintain access for residents, deliveries, etc.
- Contractor is required to minimize dust and keep the work site clean
- Truck traffic: About 10 pickup trucks daily

**Phase 3: Well Construction Duration:** 4 weeks
- During this phase, the installation of well casings requires one 24-48 hour period of continuous construction. Note: Halting work during this installation could cause the drilled borehole to collapse, resulting in major delays
- Drill rig and pipe trailer removed out and taken to another well installation site
- Truck traffic: 5 – 7 pickups daily and one large truck daily to haul away soil

**Phase 4: Demobilization Duration:** 3 weeks
- Well pumps installed and tested
- Well heads constructed flush with the ground surface
- Construction equipment removed from worksite
- Sidewalks, street parking and streets restored

**Phase 5: Water Sampling Frequency & Duration:** initially several times for one month & thereafter quarterly through 2015
- LADWP regularly collected and tested water samples from the new wells for approximately one month following construction
- After initial sampling is complete, each new well will be sampled once quarterly
- Samplings take a few hours to complete
- Sampling team consists of one to three sampling technicians in a marked LADWP vehicle
- A sampling process known as Zone Isolation Sampling Technologies (ZIST sampling), which minimizes all impacts to the immediate neighbors of the well site, was used

## Permitting Process

The project went through the necessary permit process for the construction as well as the noise levels.

1) Los Angeles County Public Health – a Well Construction Permit was obtained for each location from LA County Public Health. This permit regulates the configuration and components of the monitoring well installation and requires the installation of sanitary seals other features that prevent contamination from entering the well from the surface or moving between groundwater aquifers.

2) City of Los Angeles, Department of Public Works, Bureau of Engineering – a Utility Permit was obtained for each location from the Bureau of Engineering. This permit regulates the construction of utilities within the public right of way, including conformance to adopted standards and specifications for public works construction.

3) City of Los Angeles, Department of Public Works, Bureau of Street Lighting – approval to encroach within the street lighting utility corridor was obtained for each location from the Bureau of Street Lighting. This permit allows the construction of utilities within the area of the sidewalk / parkway reserved for the installation of street lighting systems. Monitoring well locations not approved for construction within the sidewalk or parkway were located within the street pavement area.

4) City of Los Angeles, Department of Public Works, Bureau of Sanitation – modification to the Industrial Waste Discharge Permit for discharges to a sanitary sewer located on LADWP property was obtained as needed for the program from the Bureau of Sanitation. This permit modification sets the requirements for discharge of wastewater into the sanitary sewer; establishes water quality requirements and sets reporting requirements for such discharges.

5) City of Los Angeles Department of Transportation – Worksite Traffic Control Plan approval was obtained for each site from the LA Department of Transportation. Such approval provides requirements for installing of temporary traffic signs, barricades, and control devices; sidewalk, traffic lane and road closures; and pedestrian and vehicular detours.

6) Los Angeles Police Commission – Variance from the Noise Ordinance was obtained for each site from the LA Police Commission. This variance provides requirements for allowing nighttime construction to occur between the hours of 7 pm to 7 am. Approval of the variance is subject to the approval of the Councilmember representing the affected City Council District(s).

7) California Regional Water Quality Control Board, Los Angeles Region – a National Pollution Discharge Elimination System Permit was issued for the construction program. This permit regulates discharge of wastewater from construction sites into the storm drain system; establishes water quality requirements and sets reporting requirements for such discharges.

**Work with Regulatory Agencies and Governmental Officials**

LADWP will continue to encourage the EPA to develop a long-term, comprehensive solution for existing and emerging contamination issues in the Basin. In addition to the EPA, LADWP will work with the Los Angeles Regional Water Quality Control Board and the California Department of Toxic Substances to find and hold polluters accountable for cleaning up the basin.

**Community Impacts**

The construction process disrupted the traffic in the immediate area of the well drilling project. The LADWP worked in concert with the LA Dept. of Transportation to minimize traffic impacts.

The LADWP organized the construction site in such a way, as to minimize the sound created during the well drilling process. Fencing and sound walls were utilized as needed.

# Appendix B-1: Media Coverage

Media coverage

Advertisements

Press releases

News articles/reports

http://abc7.com/archive/9151088/

# LADWP to build treatment centers to tap contaminated groundwater

June 24, 2013 12:00:00 AM PDT
By Robert Holguin

NORTH HOLLYWOOD, LOS ANGELES -- Plans are announced to build the world's largest groundwater treatment center at a Superfund pollution site. It's the San Fernando Valley. The Los Angeles Department of Water and Power (LADWP) says the expensive plan is a good investment.

There are two separate facilities that would turn the contaminated groundwater under Los Angeles into suitable drinking water. It won't come cheap: We're talking about $600- to $800-million. But the Department of Water and Power says it will pay off in the long run.

There is plenty of ground water underneath the San Fernando Basin. The problem is that much of it is contaminated, to the point that the Department of Water and Power stopped using it.

"Currently over half of the wells that we have in the San Fernando Valley are inoperable. We can't pump out of them," said James McDaniel, DWP senior assistant general manager.

McDaniel says the contamination from industrial solvents and other chemicals forced the DWP to abandon the Valley's groundwater. Instead, Los Angeles imports much of its water from Northern California.

"Right now we're having to buy expensive imported water to replace that lost supply," said McDaniel.

As a result, the DWP is planning to build the world's largest groundwater treatment center to be housed at two locations, one in North Hollywood near Vanowen and Lankershim, and another one near the intersection of the 5 and 170 freeways.

"It's a change in approach, but it's also a change in the engineering realities that we have out there," said McDaniel.

The two facilities will cost an estimated $600- to $800-million, but McDaniel says it will eventually save ratepayers money because the new plants will reduce L.A.'s dependency on water brought in from other parts of the state, which has seen a price increase of 84 percent over the past decade.

"We have bonding capacities so that we can spread the costs out over time. It'll be a good deal for our customers compared to the cost of buying more imported water," said McDaniel.

Don't expect to see the treatment centers in operation anytime soon. They won't be online until the year 2022. But still, the DWP says it's important to start planning for L.A.'s future.

"We're going to keep driving that conservation message home," said McDaniel. "But we need to have more reliable local supplies."

The DWP owns its own aquifer that brings water in from the Owens Valley, but it's producing less water than ever due to ongoing drought conditions.

Construction of the new groundwater treatment facilities is set to begin in 2018.

Los Angeles Times | ARTICLE COLLECTIONS

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# DWP to build groundwater treatment plants on Superfund site

*The facilities will restore pumping of drinking water from scores of contaminated San Fernando Valley wells, lessening L.A.'s reliance on imported water, agency says.*

June 23, 2013 | By Louis Sahagun, Los Angeles Times

The Los Angeles Department of Water and Power plans to build the world's largest groundwater treatment center over one of the largest Superfund pollution sites in the United States: the San Fernando Basin.

Two plants costing a combined $600 million to $800 million will restore groundwater pumping of drinking water from scores of San Fernando Valley wells that the DWP began closing in the 1980s, the utility said. The plants also will ensure that other wells remain open despite pollution plumes steadily migrating in their direction.

The plans mark a major shift at DWP, reversing a trend of recent decades in which the utility has offset diminishing use of groundwater with imports from Northern California and the eastern Sierra.

"By 2035, we plan to reduce our purchases of imported water by half," said James McDaniel, the DWP's senior assistant general manager.

The shift is necessary because environmental restrictions in the Sierra have reduced those imports and because the cost of water from the north has risen sharply — 64% over the last decade.

The San Fernando Basin accounts for more than 80% of the city's total local water rights, but because of contamination plumes of toxic chemicals including hexavalent chromium, perchlorate, nitrates and the carcinogen trichloroethylene, only about half of its 115 groundwater production wells are usable.

At the current rate of migration of pollutants, the city would be unable to use most of its groundwater entitlements in the basin within five to seven years, forcing it to buy and import more expensive water from the Metropolitan Water District, DWP officials said.

One treatment center will be built on DWP property in North Hollywood just north of Vanowen Street, between Morella and Hinds avenues. It will process three times as much water per second as the world's largest existing groundwater treatment facility, officials said. The DWP will build a second, slightly smaller center near the intersection of the 5 and 170 Freeways.

Construction is to begin in five years, said Marty Adams, director of water operations for the DWP. The DWP hopes to have both centers operating by 2022, producing about a quarter of the 215 billion gallons the city consumes each year.

The cost of the treatment centers will be largely borne by ratepayers, backed by municipal bond sales and spread out over 30 to 40 years, McDaniel said. The size of the rate increase for the project has yet to be determined, and the utility said it expects to field many questions from public officials and customers as the plans move forward.

Part of the cost will be offset by reducing demand for more expensive imported water and from financial compensation under the federal Superfund laws, which requires payments by parties responsible for contamination.

Over the last decade, local groundwater has provided about 11% of the city's total supplies, and nearly 30% in drought years. About 36% came from the Los Angeles Aqueduct system in the eastern Sierra Nevada and 52% from Metropolitan Water District supplies pumped from Northern California.

This year, amid ongoing drought conditions, the Los Angeles Aqueduct system is conveying less water from the Sierra than at any time since it was built in 1913.

Environmental organizations welcomed news about the treatment plants.

"The key thing is that Los Angeles is looking ahead. With climate change, we can no longer rely on snow in the Sierra Nevada range to be our reservoir," said Lenny Siegel, spokesman for the Center for Public Environmental Oversight.

Conner Everts, executive director of the Southern California Watershed Alliance, said environmental organizations have wanted to recharge the aquifer with more storm water and other sources "but DWP said it wasn't possible because of the pollution."

"It's exciting that the DWP is finally moving forward with greater reliance on local water supplies," Mark Gold, associate director of UCLA's Institute of the Environment and Sustainability, said. "However, it's long overdue. Could they have done this five years ago? Yes."

The basin's groundwater was contaminated primarily by improper storage and handling of chlorinated solvents, including trichloroethylene, also known as TCE, which was widely used after World War II to degrease metal and electronic parts. The solvents were dumped into disposal pits and storage tanks at industrial plants and military bases, where it seeped into the aquifer.

Other contaminants came from automobile repair shops and junkyards, unlined landfills, dry cleaners, paint shops, chrome plating businesses and historic dairy and agricultural operations.

The EPA determined in 2011 that TCE can cause kidney and liver cancer, lymphoma and other health problems.

The public can be exposed to TCE in several ways, including by showering in contaminated water and by breathing air in homes where TCE vapors have intruded from the soil. TCE's movement from contaminated groundwater and soil into the indoor air of overlying buildings is a major concern.

The DWP is currently drilling monitoring wells throughout the region to identify as many contaminants as possible and develop strategies for removing them, said Susan Rowghani, director of DWP's water engineering and technical services. Each contaminant will require its own specialized purification process.

For example, the current process for removing TCE is to pump water to the top of an aeration tower and, as the water flows back down, use an upward blower to send a countercurrent through it. TCE becomes trapped and is vaporized into a controlled airstream that is then filtered through activated carbon to ensure that it is not released into the atmosphere.

*louis.sahagun@latimes.com*

# DWP looking at new groundwater cleanup projects in the San Fernando Valley

*By Rick Orlov, Staff Writer*

DailyNews.com

An ambitious plan to recover more groundwater from the San Fernando Valley is being explored by the Department of Water and Power in a long-term proposal to clean up contaminated water and double the amount now available.

The utility is in the process of drilling 27 test wells around the Valley to determine what contaminants are in the water and what steps need to be taken to make it safe for human consumption.

If the results come back as expected, the utility hopes to build two plants, costing between $600 million and $800 million to clean the water over a five-year period, said project engineer Susan Rowghani.

Rowghani said that decision could be as much as two years away and would occur only after a full environmental impact report is completed.

The first and largest would be in North Hollywood and a second at the junction of the 5 and 170 Freeways. If built, they would produce about 30 percent of the city's water needs, officials said.

DWP spokesman Joe Ramallo said the purpose of the plants its to take advantage of natural water supplies in the region.

"The key issue is we are looking at our native supply because of the increasing cost of imported water and the cost of the investment to do this," Ramallo said. "We need to clean up our groundwater so that we don't put clean water into the aquifer."

Rowghani said the test wells results will be analyzed for a decision on how next to proceed that will be presented to the board of Water and Power Commissioners.

Ratepayer Advocate Fred Pickel said the proposal seems to carry high costs that he would want to study.

"The most expensive water is the water you don't have," Pickel said. "All our major water supply sources are under cost and quantity squeezes from environmental and climate risks."

Locally, the proposal drew general praise.

City Councilman Paul Krekorian, whose district covers much of the affected area, called the program overdue.

"For far too long, because of the contamination of the San Fernando Valley's groundwater, Los Angeles has been forced to adopt the nonsensical practice of importing water from distant reservoirs while at the same time draining virtually all of our local rainfall out to the ocean," Krekorian said.

"Remediating that contamination is long overdue, and the significant steps planned by the DWP are essential to enhancing a local water supply that is far more cost effective for ratepayers and also far more sensitive to the environment."

Krekorian said the proposal will allow the city to implement measures to recapture stormwater, save money and improve water quality."

Councilman Jose Huizar, chair of the Energy and Environment Committee, said he supports the idea of increasing local water supplies.

"Ninety percent of our water comes from outside the city and the water we import from (Metropolitan Water District) is increasingly expensive," Huizar said.

"As long-distance water sources become more volatile and costly, our reliance on imported water is only going to get tougher and more expensive.

"Sensible, long-term planning for our local water is the prudent thing to do. Provided it can be done using the most stringent safeguards, cleaning up our local groundwater could be an important component of a sustainable water supply for Los Angeles."

Lisa Sarkin of the Studio City Neighborhood Council also embraced the proposal.

"I think it's about time," Sarkin said. "My great-grandfather came here in 1911 and didn't buy in the Valley because of the water problems.

"This pollution should have been cleaned up in the 1990s and the fact is, we have been sucked dry by the DWP. There is plenty of water underground that they decided they didn't want to bother to treat."

Jill Banks Barad of the Valley Alliance of Neighborhood Councils said the idea should have been implemented years ago.

"We need to reduce our reliance on outside water and we need to do more to recharge the groundwater," Barad said, adding residents need to be prepared for a higher cost.

"We have the technology now to do it, but it will be more costly than anticipated, and to make this technological leap to build the world's largest treatment center will certainly run over budget."

The DWP has eight major water fields within the Valley that account for 115 wells, which were installed between 1924 and 1991.

The decision to look at the local water supplies comes as the continuing drought is expected to reduce water supplies from the Los Angeles Aqueduct, meaning the utility will have to purchase more expensive water from the Metropolitan Water District.

The clean-up plans, which are on federal Superfund sites, still have a long way to go with approvals needed from the board of Water and Power Commission and the City Council.

Cost of the plants will generally be covered by ratepayers, but will be less than the price of purchasing water, officials said.

Contaminants in the water have built up over the years and includes trichoroethylene, known as TCE, a degreasing solvent, as well as the remnants from auto shops, junkyards, dry cleaners, paint shops and other businesses.

In the 1980s, the DWP was forced to shut down a number of its wells because of the contaminant problem.

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# Appendix B-2: Summary of Briefing with City Council District 6

A meeting with the representatives of City Council District 6 was held on Thursday, January 20, 2011 at the Van Nuys City Hall at 3:00 p.m.

The following is a brief re-cap of the meeting with representatives of the sixth Council district.

**Meeting with Council District 6 on the San Fernando Valley Water Quality Monitoring Wells**
**Thursday, January 20, 2011**
**3:00 p.m. Van Nuys CD6 Field Office**

**Attendance:**

| | |
|---|---|
| Mr. Jose Cornejo | Chief of Staff |
| Ms. Olga Ayala | Field Deputy |
| Mr. Rueben Zarangoza | Field Deputy |
| Mr. Edward Martinez | Field Deputy |
| Ms. Sulma Hernandez | Assistant Field Deputy |
| Mr. Alvarez Lurdes | Council Aide |
| Ms. Lynda Levitan | Field Deputy |
| | |
| Mr. Greg Reed | LADWP |
| Ms. Moral Sarkissian | LADWP |
| Mr. Greg Bartz | LADWP |
| Ms. Kim Hughes | LADWP |

The meeting opened with Mr. Greg Reed presenting an overview of our water supply situation and the City of Los Angeles' water rights and ground water sources. He explained that the LADWP provides approximately 10% of our water supply from our groundwater source. A packet with an overview of the project and the details was shared with a copy for each attendee.

The LADWP's key well areas are in the San Fernando Valley, the Harbor area, the South LA area and the Sylmar area. These areas comprise the major zones for the City's pumping rights.

There are areas of contamination in the San Fernando Valley aquifer due to past chemical dumping in the 1940s through the 1960s. Chemicals utilized in manufacturing and other industrial uses were discarded and found their way to the aquifer.

The key LA pumping fields in the San Fernando Valley include the following:

-Tujunga Well Field
-North Hollywood Well Field
-Rinaldi/Toluca Well Field

Council District 6 and LADWP staff had an extensive discussion of local issues, concerns, and precautions to protect constituents from the impacts of well drilling construction. Numerous suggestions were received and have been incorporated into collateral materials and the overall outreach strategy for the RI/FS phase of the project. Below is a summary of the key insights and suggestions provided by CD 6 staff.

**Areas of Emphasis Cited by City of Los Angeles Council District 6 in Order of Priority**

1. DWP outreach staff to have cultural understanding and affinity for the community, with accompanying second language skills for Spanish and Armenian. Many of the area residents do not maintain a 9-5 work schedule; include introduction of work crews to the residents at each site area to facilitate communications and good relations during the course of the construction work.

2. Emphasize the environmental safety and water quality focus of the program and importance of the SFV basin groundwater remediation to mitigate impacts to outside water sourcing in the event of natural disasters particularly earthquakes.

3. Define steps taken to ensure safety, particularly for neighborhood children, at and around the work sites, including any potential for falling into the wells or excavations.

4. Exercise all possible reasonable flexibility, in well-site selection, to minimize impacts to residents.

5. Provide assurances that ongoing maintenance and post-construction cleanup of the work sites, as well as restoration of the public right of way, especially sidewalks and parkways, will be adhered to; sidewalks should be restored to better-than-original condition; there is skepticism in the community regarding DWP responsiveness to their concerns and attention to details in addressing concerns is important; make these items a part of the written agreement with the contractor to ensure compliance.

6. Sensitivity to specific needs of individual residents impacted by the work sites, particularly access and medical issues. CD 6 staff to check on residents' status in regard to this issue prior to commencement of well construction.

7. Should the need for filing of damage claims arise, prioritize any program related claims and make the process a positive experience for those legitimate claims; there is skepticism in the community regarding the DWP claims process based on several residents experience with claims filed during construction of the nearby Parthenia Trunk Line project in the past two years.

8. Incentivize residents to accept the project by reasonably accommodating needs and requests based on an assessment of individual circumstances resulting from program impacts

9. Work with CD 6 staff and the Arleta Business Watch group to determine list of key stakeholder early interview list for the area's business community.

10. Recognize that word-of-mouth communication regarding what's taking place in the community is very important in this area and that good will gained from residents on the initial four well-sites will ease the path to acceptance in the communities where the remaining wells will be sited; refer to successful collaborations with communities on projects, such as the Elmer Street storm water capture street landscaping project in Sun Valley, during community outreach.

11. Use checklist to ensure these recommendations are adhered to.

12. Information repository should be established at a local Valley library rather than at the USEPA repository at the Burbank library

# Appendix C: CEQA Process

## California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) is a California statute passed in 1970, shortly after the United States federal government passed the National Environmental Policy Act (NEPA), to institute a statewide policy of environmental protection. CEQA does not directly regulate land uses, but instead requires state and local agencies within California to follow a protocol of analysis and public disclosure of environmental impacts of proposed projects and adopt all feasible measures to mitigate those impacts. [1] Because CEQA makes environmental protection a mandatory part of every California state and local agency's decision making process, it has become a model for environmental protection laws in other states.

## Policy

The CEQA statute, California Public Resources Code § 21000 et seq., codifies a statewide policy of environmental protection. According to CEQA, all state and local agencies must give major consideration to environmental protection in regulating public and private activities, and should not approve projects for which there exist feasible and environmentally superior mitigation measures or alternatives.

## Protocol

In addition to establishing a statewide environmental policy, CEQA also mandates actions all state and local agencies must take to advance that policy. Specifically, for any project under CEQA's jurisdiction with potentially significant environmental impacts, agencies must identify mitigation measures and alternatives by preparing an Environmental Impact Report, and may approve only projects with no feasible mitigation measures or environmentally superior alternatives.

The California Resources Agency promulgates the CEQA Guidelines, California Code of Regulations Title 14 § 15000 et seq., which detail the protocol by which state and local agencies comply with CEQA requirements. Appendix A of the CEQA Guidelines summarizes this protocol in flowchart form.

## Exemptions

CEQA originally applied to only public projects, but California Supreme Court interpretation of the statute, as well as later revisions to the wording, have expanded the CEQA's jurisdiction to nearly all projects within California, including those accomplished by private businesses and individuals. § 21002.1: "Each public agency shall mitigate or avoid the significant effects on the environment of projects that it carries out or approves whenever it is feasible to do so." For private projects, CEQA applies when a government permit or other entitlement for use is necessary.

## Ministerial Decisions

In general CEQA applies to any land use activity, but there are many details in determining if a project falls under CEQA or not. General rule of thumb has been that CEQA applies to any discretionary project that is a project that requires approval by a state or local government body. This includes building projects as well as planning documents such as general plans and zoning ordinances. In general, CEQA does not apply when only ministerial approval is necessary, such as a building permit application. The presumption is that CEQA would have already been applied to such projects during discretionary approval process. There are however both times when CEQA does not apply to discretionary decisions and times with CEQA does apply to ministerial decisions.

## Abrogation

The California state legislature has, on occasion, abrogated CEQA such that specific projects could proceed without an EIR.

## Lead Agency

When more than one agency is involved in a project, the agency with "primary responsibility for approving a project" is the lead agency, for purposes of following the CEQA protocol. Other agencies with responsibilities for approving a project are responsible agencies. The lead agency is normally the agency with general governing powers, such as a city or county. Agencies with limited governing powers, such as public utilities and parks and recreation districts, are normally responsible agencies.

## Significance Study

To comply with CEQA, a lead agency must first prepare an initial study to assess whether a project will have no environmental impacts, less than significant impacts, less than significant impacts if mitigated, or potentially significant impacts.

## Thresholds of Significance

Under CEQA, every agency in the state "is encouraged to develop and publish thresholds of significance" against which to compare the environmental impacts of projects. Such thresholds are to be published for public review and supported by substantial evidence before their adoption. A lead agency will normally consider the environmental impacts of a project to be significant if and only if they exceed established thresholds of significance.

## Results

If the lead agency determines the project could have no significant environmental impacts, no EIR will be necessary, but the lead agency must prepare a Negative Declaration (Neg Dec) explaining the agency's decision. If the project could have significant environmental impacts, but the developer has revised the project to mitigate those impacts to a level of less than significant, no EIR will be necessary, but the lead agency must prepare a Mitigated Negative Declaration. Finally, if the lead agency determines the project may have significant environmental impacts, the lead agency must prepare an EIR. [11]

If the lead agency adopts either a Neg Dec or a Mitigated Neg Dec, the agency must make it available for public review and comment before further action is taken on the project.

## Environmental Impact Report

According to case law, the requirement to prepare an EIR is "the heart of CEQA."[13] An EIR serves to inform governmental agencies and the public of a project's environmental impacts.[14] Further, an EIR proposes mitigations and alternatives which may reduce or avoid the environmental impacts; as the EIR is considered the heart of CEQA, mitigation and alternatives are considered the heart of the EIR.[15] One alternative that a lead agency must usually consider is the no project alternative, that is, cancellation of the project and anticipated proposals of new projects in its place. Among all the alternatives, the EIR identifies the environmentally superior alternative; if the environmentally superior alternative is the no project alternative, the EIR identifies the environmentally superior alternative among the other alternatives.

In general the lead agency hires an outside consultant, paid for by the entity that proposed the project, to prepare an EIR. The lead agency must make a draft EIR available to public review and comment before a final EIR is approved.

## Feasibility Study

Upon adoption of the final EIR, the lead agency studies the mitigation measures and alternatives proposed by the EIR for feasibility. The agency may approve the project only if all mitigation measures and environmentally superior alternatives, including the no project alternative, are infeasible.

## LADWP San Fernando Valley Groundwater Basin Monitoring Wells Project CEQA Review Process

The LADWP and its partners reviewed the planned well project and submitted an overview of the program for CEQA consideration. The proposed project was found to be exempt from developing an EIR and a copy of the CEQA “Notice of Exemption” is included. The LADWP will continually work in concert with all environmental guidelines.

COUNTY CLERK'S USE

FILED

MAR 09 2011

DEAN C. LOGAN
REGISTRAR-RECORDER/COUNTY CLERK
J. MERINO DEPUTY

CITY OF LOS ANGELES
OFFICE OF THE CITY CLERK
ROOM 395, CITY HALL
LOS ANGELES, CALIFORNIA 90012
CALIFORNIA ENVIRONMENTAL QUALITY ACT

# NOTICE OF EXEMPTION

(City CEQA Guidelines)

CITY CLERK'S USE

Date: MAR - 9 2011 Certified by

No: [illegible]

DOCUMENT FILED
City Clerk's Office

Submission of this form is optional. The form shall be filed with the County Clerk, 12400 Imperial Highway, Room 2001, Norwalk, CA 90650, pursuant to Public Resources Code Section 21152(b). Pursuant to Public Resources Code Section 21168(d), the filing of this notice starts a 35-day statute of limitations on Court challenges to the approval of the project. Failure to file the notice results in the statute of limitations being extended to 180 days.

| **LEAD CITY AGENCY AND ADDRESS:** | **COUNCIL DISTRICT** |
|---|---|
| Los Angeles Department of Water and Power<br>111 N. Hope Street, Room 1044<br>Los Angeles, CA 90012 | 2, 6 and 7 |
| **PROJECT TITLE**<br>San Fernando Basin Groundwater Monitoring Wells Construction Project | **LOG REFERENCE** |

**PROJECT LOCATION:** Twenty six locations throughout the San Fernando Valley, Los Angeles, CA. The final specific siting of each well is still to be determined but the attached maps show the approximate locations (intersections) of each well. Well locations will be sited to optimize monitoring along the water flow path to the City's water supply wells and are subject to the approval by the California Department of Public Health. Factors include locations of known or suspected contaminant releases, water quality data, hydrogeologic information, groundwater flow modeling and areas where groundwater data does not exist. See attached project description and list of intersections/maps.

**DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT:**
See attached Project Description

| **CONTACT PERSON** | **AREA CODE \| TELEPHONE NUMBER \| EXT.** |
|---|---|
| Nadia Parker | (213) 367-1745 |

**EXEMPT STATUS: (Check One)**

| | CITY CEQA GUIDELINES | STATE EIR GUIDELINES |
|---|---|---|
| ___ MINISTERIAL | Art. II, Sec. 2b | Sec. 15073 |
| ___ DECLARED EMERGENCY | Art. II, Sec. 2a(1) | Sec. 15071(a) |
| ___ EMERGENCY PROJECT | Art. II, Sec. 2a(2) & (3) | Sec. 15071(b) & (c) |
| ___ GENERAL EXEMPTION | Art. II, Sec. 1 | Sec. 15060 |
| _X_ CATEGORICAL EXEMPTION Class 6 | Art. III, Sec. 1 | Sec. 15100 |

___ OTHER (See Public Resources Code Sec. 21080(b) and set forth state and city guidelines provision)

**JUSTIFICATION FOR PROJECT EXEMPTION:**
This project is categorically exempt under the California Environmental Quality Act (CEQA) pursuant to CEQA guidelines Section 15306, Class 6, Information Collection. Class 6 consists of basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded.

**IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING**

| SIGNATURE | TITLE: | DATE |
|---|---|---|
| Charles C. Holloway<br>Charles Holloway | Manager, Environmental Planning and Assessment | 3/7/11 |

| FEE: | RECEIPT NO. | REC'D BY | DATE |
|---|---|---|---|
| $75.00 | | | |

DISTRIBUTION: (1) County Clerk (2) City Clerk (3) Agency Record
Form Gen. 153 (9/91) (Appendix A)

11 [illegible]

THIS NOTICE WAS POSTED
ON MAR 09 2011
UNTIL APR 08 2011
REGISTRAR-RECORDER/COUNTY CLERK

## San Fernando Basin Groundwater Monitoring Well Installation Project

Program Description
The Los Angeles Department of Water and Power (LADWP) is planning to install 26 new groundwater monitoring wells, with depths of up to 1,000 feet, from approximately May 2011 through February 2013. The majority of the wells will be located in residential areas of the Northeast San Fernando Valley, in Council Districts 2, 6 and 7, including the communities of Arleta, Sun Valley, North Hollywood, Panorama City and Van Nuys. The testing of water from these wells is planned to occur quarterly until 2015.

Purpose
Collection and analysis of water samples from these wells will enable LADWP to compile data needed to determine the nature and extent of groundwater contamination and select the appropriate remediation methods. The wells are part of a larger long-term LADWP program to develop projects which will recover the City's use of the groundwater stored in the San Fernando Groundwater Basin, which has historically supplied as much as 30% of the City's water supplies during drought years. Currently, only about 11% of the City's water supply comes from local groundwater sources. These wells are for water testing only and will not be used to supply the City's water needs.

Clean up of the contaminated San Fernando Groundwater Basin will allow the expansion of groundwater storage, increase the availability of the City's local water resources, and reduce Los Angeles' dependency on expensive imported sources of water to ensure a sustainable supply to meet future needs.

Construction Schedule
Each well takes two to four months for construction and operational integrity. Work hours will generally range between 7 AM and 7 PM, Monday through Friday, with overnight construction for one period of 24-48 hours required for each well. The duration to complete the entire program of 26 wells is estimated to take approximately 20 months assuming multiple locations are under construction at the same time. The 5 phases of construction of an individual well are:

Phase 1: Mobilization (Duration: approximately 2 weeks)
- The drill rig and other construction equipment set up at the worksite
- Sections of the sidewalk closed off for public safety

Phase 2: Pilot hole drilling (Duration: approximately 4 weeks)
- Drilling will occur (mufflers and other noise reduction equipment used to reduce noise when possible.)
- Truck traffic: About 10 pickup trucks daily

Phase 3: Well Construction (Duration: approximately 4 weeks)
- During this phase, the installation of well casings requires one 24-48 hour period of continuous construction. (Halting work during this installation could cause the drilled borehole to collapse, resulting in major delays.)
- Drill rig and pipe trailer removed out and taken to another well installation site
- Truck traffic: 5 – 7 pickups daily and one large truck daily to haul away soil

Phase 4: Demobilization (Duration approximately: 3 weeks)
- Well pumps installed and tested
- Well heads constructed flush with the ground surface
- Construction equipment removed from worksite

Phase 5: Water sampling (Frequency & Duration: initially several times for one month & thereafter quarterly through 2015)
- LADWP will regularly collect and test water samples from the new wells for approximately one month following construction
- After initial sampling is complete, each new well will be sampled once quarterly
- Sampling team consists of one to three sampling technicians in a marked LADWP vehicle.
- Samplings take a few hours to complete

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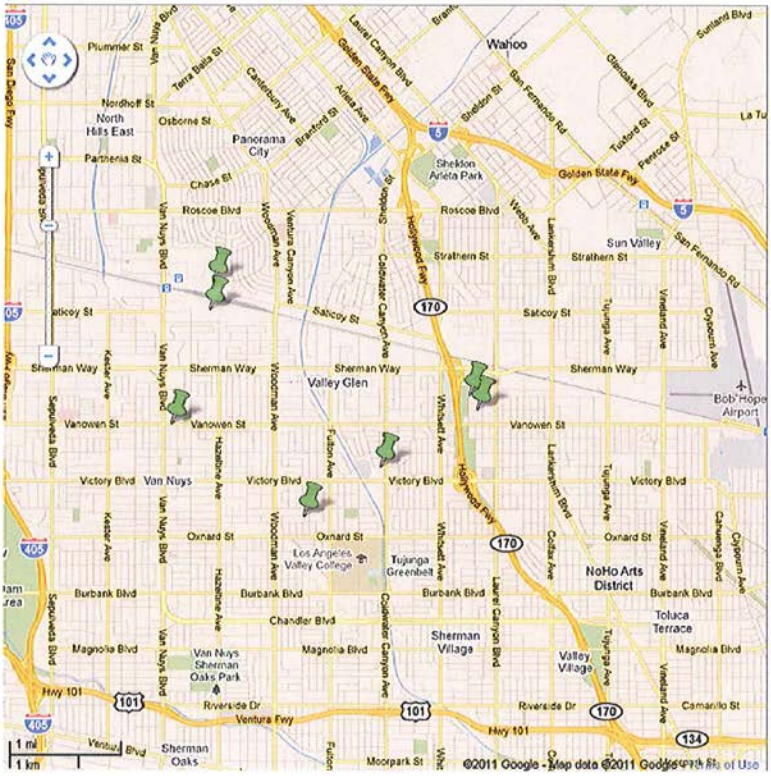
The following map shows the approximate locations of groundwater monitoring wells to be constructed in the **North Hollywood Wellfield.**




**North Hollywood Wellfield Intersections:**
Hart St and Saint Clair
Bellingham and Dehougne
Hamlin and Coldwater Cyn
Delano and Greenbush
Sylmar and Vanowen
Murietta and Schlitz
Stansbury and Stagg

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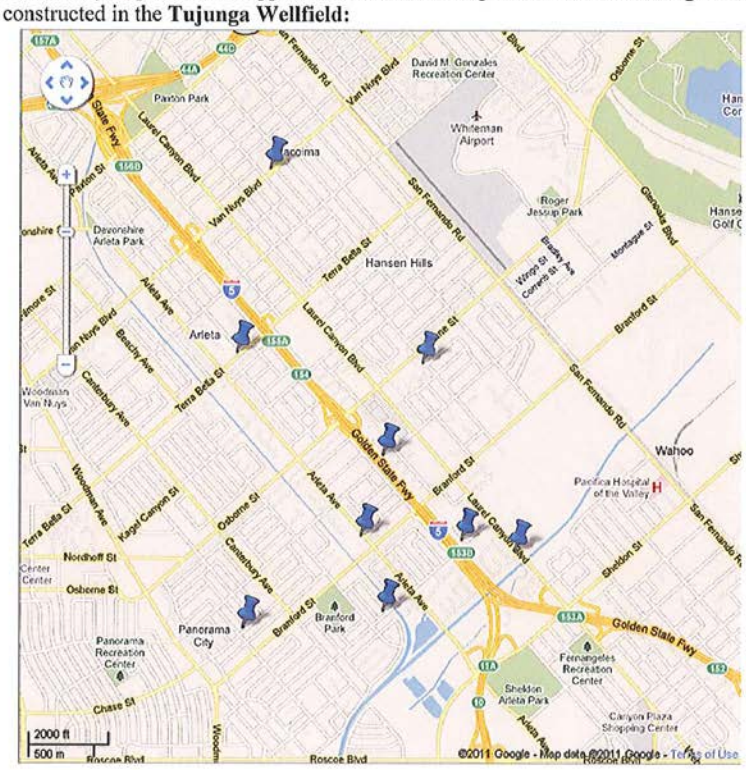
The following map shows the approximate locations of groundwater monitoring wells to be constructed in the **Tujunga Wellfield:**




**Tujunga Wellfield Intersections:**
Wentworth and Woodale
Chase and Greenbush
Wentworth and Cranford
Arleta and Bracken
Tonopah and Laurel Canyon
Cranford and Montague
Terra Bella and Bartee
Wingo and Haddon
Oneida and Van Nuys

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