

Drinking Water Source Assessment

Water System

Zone 7 Water Agency

Alameda County

Water Source

STONERIDGE WELL 01 - TREATED

Assessment Date

March, 2002

California Department of Health Services
Drinking Water Field Operations Branch
Zone 7 Water Agency

District No.	B7
System No.	0110010
Source No.	010
PS Code	0110010-010

Assessment Summary

District Name	Zone 7 Water Agency	District No.	B7	County	Alameda
System Name	Zone 7 Water Agency	System No.	0110010		
Source Name	STONERIDGE WELL 01 - TREATED	Source No.	010	PS Code	0110010-010
Completed by	Mary Lim	Date	March, 2002		

Description of System and Source

The Zone 7 Water Agency water system is located in eastern Alameda County and wholesales treated water to its four retailers in the Livermore-Amador Valley area. These retailers include: the cities of Livermore and Pleasanton, the California Water Service, and the Dublin-San Ramon Services District. There are approximately 53,000 service connections serving a population of approximately 175,000.

The drinking water supply for the Zone 7 Water Agency water system comes from various sources. The primary source being the State Water Project. Zone 7 also captures local water from the Arroyo del Valle watershed in Lake del Valle. Another important local resource is the Livermore-Amador Valley Groundwater Basin. General land use for the Livermore-Amador Valley are agricultural, commercial, industrial, residential, and the contains undeveloped lands as well.

Assessment Procedures

The assessment of the source Stoneridge Well No. 1 was conducted by Zone 7 Water Agency. The following sources of information were used in the assessment: EOA, Inc. (Zone 7's consultant) PCA inventory; well logs; well plans and specifications; and site visits.

Procedures used to conduct the assessment include:

1. Well location, construction, production, and hydrogeologic data were obtained from well logs, well plans and specifications, other Zone 7 staff, and site visits.
2. On June 7 and 8, 2001, EOA drove through the area within the protection zones.
3. EOA obtained information from the Dublin San Ramon Services District's wastewater pretreatment program regarding activities carried out by businesses within the protection zones.
4. EOA obtained information about underground and above-ground hazardous material/waste storage tanks from the Livermore-Pleasanton Fire Department (LPPD).
5. EOA obtained information on contamination release sites from the following sources: 1) Zone 7's toxic sites database; and 2) the California Regional Water Quality Control Board, San Francisco Bay Region office website in May, 2001.

Assessment Summary

System Name Zone 7 Water Agency System No. 0110010
Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

Contents of this Assessment

- | | | | | |
|-----|-------------------------------------|----|-------------------------------------|---|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Assessment Summary |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Vulnerability Summary |
| Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Source Location Form |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Delineation of Ground Water Protection Zones |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Physical Barrier Effectiveness Checklist |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Source Data Sheet |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Inventory of Possible Contaminating Activities |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Vulnerability Ranking |
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Assessment Map |

Drinking Water Source Assessment and Protection (DWSAP) Program

Vulnerability Summary

District Name	<u>Zone 7 Water Agency</u>	District No.	<u>B7</u>	County	<u>Alameda</u>
System Name	<u>Zone 7 Water Agency</u>	System No.	<u>0110010</u>		
Source Name	<u>STONERIDGE WELL 01 - TREATED</u>	Source No.	<u>010</u>	PS Code	<u>0110010-010</u>
Completed by	<u>Mary Lim</u>	Date	<u>March, 2002</u>		

THE FOLLOWING INFORMATION MUST BE INCLUDED IN THE SYSTEM CONSUMER CONFIDENCE REPORT

A source water assessment was conducted for the STONERIDGE WELL 01 - TREATED
of the Zone 7 Water Agency water system in March, 2002

The source is considered most vulnerable to the following activities not associated with any detected contaminants:

Sewer collection systems

Discussion of Vulnerability

There have been no contaminants detected in this source associated with the sewer collection systems, however the source is still considered vulnerable due to its vicinity to them. Any potential releases from the sewer collection system would not likely be extensive, and would occur at or near the ground surface. Furthermore, this well is first screened at 250 feet below the ground surface, and has a 50 foot confining clay layer as well as other several relatively impermeable clay layers between the surface and the screened aquifer.

The following contamination release sites were also identified within the protection zones for Stoneridge Well No. 1:

Exxon, 3192 Santa Rita Rd. - This site is identified in the LUSTIS and Zone 7 toxics sites data sets, and is located within protection zone B10. Contaminants identified by these sources include petroleum hydrocarbons and MTBE. In the field EOA noted that this address is occupied by Steve's Valero gas station. The Alameda County Department of Environmental Health (ACDEH) is providing regulatory oversight for an ongoing investigation at the site to ensure that the aquifers used for municipal water supply are not impacted. Six monitoring wells have been installed, and a work plan for a seventh well has been completed.

Shell, corner of Santa Rita Rd. and Pimlico Dr. - This site is identified in the Zone 7 toxics sites data set only, and is located within protection zone B10. This data set identifies petroleum hydrocarbons as the contaminant of concern.

Combs Property, 1808 Courtney Ave. - This site is identified in the LUSTIS data set only, and is located within protection zone B10. EOA noted in the field that this address is located in a residential area. Based on LUSTIS it appears that low levels of petroleum hydrocarbons were found in soil only, and the site's status is listed as "Case Closed: Regional Board (and Local Agency where appropriate) are in concurrence that no further action is necessary at the site."

Heller Seasonings, Inc., 2000 Oakland Ave. - This site is identified in the LUSTIS data set only. The brief LUSTIS record indicated low levels of benzene were detected in groundwater beneath the site. The same record indicated that there was a leak/spill from a tank. However the LPFD records indicate that there was never an underground tank at this site. The Heller Seasoning, Inc. building has now been demolished and is currently a residential area.

Zone 7 has a "Toxic Site Surveillance" program, in which staff documents and tracks sites across the basin that pose a potential threat to drinking water. Information is gathered from the state, county, and local agencies, as well as from Zone 7's well permitting program. A report is generated by Zone 7 staff on a semi-annual basis which provides the progress of investigations and clean-ups.



System Name	<u>Zone 7 Water Agency</u>	System No.	<u>0110010</u>
Source Name	<u>STONERIDGE WELL 01 - TREATED</u>	Source No.	<u>010</u>
		PS Code	<u>0110010-010</u>

A copy of the complete assessment may be viewed at:

Zone 7 Water Agency
5997 Parkside Drive
Pleasanton
CA, CA 94588

You may request a summary of the assessment be sent to you by contacting:

Mary Lim
Water Resources Technician
925-484-2600 x 405
925-462-3914 (fax)
mlim@zone7water.com

Drinking Water Source Assessment and Protection (DWSAP) Program

Delineation of Ground Water Protection Zones

District Name Zone 7 Water Agency District No. B7 County Alameda
 System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

Completed by Mary Lim Date March, 2002

Method Used to Delineate Protection Zones

X 1. Calculated Fixed Radius

2. Modified Calculated Fixed Radius (Attach documentation for direction of ground water flow.)
3. More Detailed Methods
4. Arbitrary Fixed Radius (For use only by or permission of DHS)

Maximum Pumping Rate of Well (Q)	<u>1,798</u>	gallons/minute
	<u>2,900</u>	acre feet/year
	<u>126,324,000</u>	cubic feet/year
Effective Porosity	<u>0.18</u>	<input type="checkbox"/> Default Value
Screened Interval of Well	<u>210</u>	feet <input type="checkbox"/> Default Value

Protection Zone	Calculated Value	Minimum Value	Radius of Protection Zone
Zone A - 2 Year TOT*	1,459 Feet	600 Feet	1,459 Feet
Zone B5 - 5 Year TOT*	2,306 Feet	1,000 Feet	2,306 Feet
Zone B10 - 10 Year TOT*	3,262 Feet	1,500 Feet	3,262 Feet

Drinking Water Source Assessment and Protection (DWSAP) Program

Physical Barrier Effectiveness (PBE)

District Name	Zone 7 Water Agency	District No.	B7	County	Alameda
System Name	Zone 7 Water Agency	System No.	0110010		
Source Name	STONERIDGE WELL 01 - TREATED	Source No.	010	PS Code	0110010-010
Completed by	Mary Lim	Date	March, 2002		

Parameter	Possible Points	This Source	Score
Type of Aquifer Confinement			
1. Unconfined, Semi-confined, Fractured Rock, Unknown Aquifer	0		
2. Confined	50	X	50
Pathways of Contamination (All Aquifers)			
Presence of Abandoned or Improperly Destroyed Wells			
1. Present within Zone A (2 year TOT distance)			
Yes	0		
No	5	X	5
Unknown	0		
2. Present within Zone B5 (2 -5 year TOT distance)			
Yes	0	X	0
No	3		
Unknown	0		
3. Present within Zone B10 (5-10 year TOT distance)			
Yes	0		
No	2	X	2
Unknown	0		
Hydraulic Head (Confined Aquifers)			
What is the relationship in the hydraulic head between the confined aquifer and the overlying unconfined aquifer? (i.e. does the well flow under artesian conditions?)			
1. Head in confined aquifer is higher than head in unconfined aquifer under all conditions.	20		
2. Head in confined aquifer is higher than head in unconfined aquifer under static conditions.	10		
3. Head in confined aquifer is lower than or same as head in unconfined aquifer under static conditions.	0	X	0
4. Unknown	0		
Well Construction (All Aquifers)			
Sanitary Seal (Annular Seal) Depth			
None of less than 20 feet	0		
Between 20 and 50 feet	6		
50 feet or greater	10	X	10
Unknown	0		
Surface Seal (concrete cap)			
Not present or improperly constructed	0		
Watertight, slopes away from well at least 2' laterally in all directions	4	X	4
Unknown	0		

Physical Barrier Effectiveness (PBE)

System Name Zone 7 Water Agency System No. 0110010

Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

Parameter		Possible Points	This Source	Score
Well Construction (All Aquifers)--continued				
Flooding potential at well site	Subject to localized flooding (i.e. in low area or unsealed pit or vault) or within 100 year flood plain	0		
	Not subject to flooding	1	X	1
	Unknown	0		
Security at well site	Not secure	0		
	Secure	5	X	5
	Unknown	0		

Score	Effectiveness
0 to 35	Low
36 to 69	Moderate
70 to 100	High

Maximum Score = 100

Score	<u>77</u>
Effectiveness	<u>High</u>

Drinking Water Source Assessment and Protection (DWSAP) Program

Inventory of Possible Contaminating Activities (PCA Inventory)

District Name Zone 7 Water Agency District No. B7 County Alameda
 System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010
 Completed by Mary Lim Date March, 2002

PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Commercial/Industrial Activities					
Automobile- Body shops (H)	N	N	N		
Automobile- Car washes (M)	N	N	Y		
Automobile- Gas stations (VH)	N	N	Y		Exxon Gas at 3192 Santa Rita Rd
Automobile- Repair shops (H)	N	N	N		
Boat services/repair/ refinishing (H)	N	N	N		
Chemical/petroleum pipelines (H)	N	N	N		
Chemical/petroleum processing/storage (VH)	U	U	U		
Dry cleaners (VH)	N	N	Y		
Electrical/electronic manufacturing (H)	N	N	N		
Fleet/truck/bus terminals (H)	N	N	N		
Automotive repair/ manufacturing (H)	N	N	N		
Home manufacturing (H)	N	N	N		
Junk/scrap/salvage yards (H)	N	N	N		
Machine shops (H)	N	N	Y		
Metal plating/ finishing/fabricating (VH)	N	N	Y		
Photo processing/printing (H)	N	N	Y		
Plastics/synthetics producers (VH)	N	N	N		
Research laboratories (H)	N	N	N		
Wood preserving/treating (H)	N	N	N		
Wood/pulp/paper processing and mills (H)	N	N	N		
Lumber processing and manufacturing (H)	N	N	N		
Sewer collection systems (H, if in Zone A, otherwise L)	Y	Y	Y		
Parking lots/malls (>50 spaces) (M)	Y	Y	Y		
Cement/concrete plants (M)	N	N	N		
Food processing (M)	N	N	N		
Funeral services/graveyards (M)	N	N	N		
Hardware/lumber/parts stores (M)	N	N	N		
Appliance/Electronic Repair (L)	N	N	N		
Office buildings/complexes (L)	N	N	Y		
Rental Yards (L)	N	N	N		
Self-storage/mini storage (L)	N	N	N		

Y = Yes N = No U = Unknown

* = A contaminant potentially associated with this activity has been detected in the water supply.

Inventory of Possible Contaminating Activities (PCA Inventory)

System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Residential/Municipal Activities					
Airports - Maintenance/ fueling areas (VH)	N	N	N		
Landfills/dumps (VH)	N	N	N		
Railroad yards/ maintenance/ fueling areas (H)	N	N	N		
Septic systems - high density (>1/acre) (VH if in Zone A, otherwise M)	N	N	N		
Sewer collection systems (H, if in Zone A, otherwise L)	Y	Y	Y		
Utility stations - maintenance areas (H)	N	N	N		
Wastewater treatment plants (VH in Zone A, otherwise H)	N	N	N		
Drinking water treatment plants (M)	N	N	N		
Golf courses (M)	N	N	N		
Housing - high density (>1 house/0.5 acres) (M)	Y	Y	Y		
Motor pools (M)	N	N	N		
Parks (M)	N	Y	Y		
Waste transfer/recycling stations (M)	N	N	N		
Apartments and condominiums (L)	Y	Y	Y		
Campgrounds/ Recreational areas (L)	N	N	N		
Fire stations (L)	N	N	Y		
RV Parks (L)	N	N	N		
Schools (L)	Y	Y	N		
Hotels, Motels (L)	N	N	N		
Other Activities					
NPDES/WDR permitted discharges (H)	U	U	U		
Underground Injection of Commercial/Industrial Discharges (VH)	U	U	U		
Historic gas stations (VH)	N	N	N		
Historic waste dumps/ landfills (VH)	N	N	N		
Illegal activities/ unauthorized dumping (H)	U	U	U		
Injection wells/ dry wells/ sumps (VH)	N	N	N		
Known Contaminant Plumes (VH)	N	N	Y		See EOA Memorandum
Military installations (VH)	N	N	N		
Mining operations - Historic (VH)	N	N	N		
Mining operations - Active (VH)	N	N	N		
Mining - Sand/Gravel (H)	N	Y	Y		
Wells - Oil, Gas, Geothermal (H)	N	N	N		

Y = Yes N = No U = Unknown
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Inventory of Possible Contaminant Activities

System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Other Activities					
Salt Water Intrusion (H)	N	N	N		
Recreational area - surface water source (H)	N	N	N		
Underground storage tanks - Confirmed leaking tanks (VH)	N	N	Y		
Underground storage tanks - Decommissioned - inactive tanks (L)	U	U	U		
Underground storage tanks - Non-regulated tanks (tanks smaller than regulatory limit) (H)	N	N	U		
Underground storage tanks - Not yet upgraded or registered tanks (H)	N	N	N		
Underground storage tanks - Upgraded and/or registered - active tanks (L)	N	N	Y		
Above ground storage tanks (M)	N	N	Y		
Wells - Water supply (M)	N	N	Y		
Construction/demolition staging areas (M)	N	N	N		
Contractor or government agency equipment storage yards (M)	N	N	N		
Dredging (M)	N	N	N		
Transportation corridors - Freeways/state highways (M)	N	N	Y		
Transportation corridors - Railroads (M)	N	N	N		
Transportation corridors - Historic railroad right-of-ways (M)	N	N	Y		
Transportation corridors - Road Right-of-ways (herbicide use areas) (M)	Y	Y	Y		
Transportation corridors - Roads/ Streets (L)	Y	Y	Y		
Hospitals (M)	N	N	Y		
Storm Drain Discharge Points (M)	Y	Y	Y		
Storm Water Detention Facilities (M)	N	N	N		
Artificial Recharge Projects - Injection wells (potable water) (L)	N	N	N		
Artificial Recharge Projects - Injection wells (non-potable water) (M)	N	N	N		
Artificial Recharge Projects - Spreading Basins (potable water) (L)	N	N	N		
Artificial Recharge Projects - Spreading Basins (non-potable water) (M)	N	N	N		
Medical/dental offices/clinics (L)	N	N	Y		

Y = Yes N = No U = Unknown
 * = A contaminant potentially associated with this activity has been detected in the water supply.

Inventory of Possible Contaminating Activities (PCA Inventory)

System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Other Activities					
Veterinary offices/clinics (L)	N	N	Y		
Surface water - streams/ lakes/rivers (L)	Y	Y	Y		
Wells - monitoring, test holes (L)	Y	Y	Y		

Y = Yes N = No U = Unknown
 * = A contaminant potentially associated with this activity has been detected in the water supply.

Drinking Water Source Assessment and Protection (DWSAP) Program

Vulnerability Ranking

District Name Zone 7 Water Agency District No. B7 County Alameda
 System Name Zone 7 Water Agency System No. 0110010
 Source Name STONERIDGE WELL 01 - TREATED Source No. 010 PS Code 0110010-010

Completed by Mary Lim Date March, 2002

Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
A	Sewer collection systems (H, if in Zone A, otherwise L)		5	5	1	11
A	Sewer collection systems (H, if in Zone A, otherwise L)		5	5	1	11
A	Housing - high density (>1 house/0.5 acres) (M)		3	5	1	9
A	Parking lots/malls (>50 spaces) (M)		3	5	1	9
A	Storm Drain Discharge Points (M)		3	5	1	9
A	Transportation corridors - Road Right-of-ways (herbicide use areas) (M)		3	5	1	9
B5	Mining - Sand/Gravel (H)		5	3	1	9
B10	Automobile- Gas stations (VH)		7	1	1	9
B10	Dry cleaners (VH)		7	1	1	9
B10	Known Contaminant Plumes (VH)		7	1	1	9
10	Metal plating/ finishing/fabricating (VH)		7	1	1	9
B10	Underground storage tanks - Confirmed leaking tanks (VH)		7	1	1	9
A	Chemical/petroleum processing/storage (VH)		7	0	1	8
A	Underground Injection of Commercial/Industrial Discharges (VH)		7	0	1	8
B5	Chemical/petroleum processing/storage (VH)		7	0	1	8
B5	Underground Injection of Commercial/Industrial Discharges (VH)		7	0	1	8
B10	Chemical/petroleum processing/storage (VH)		7	0	1	8
B10	Underground Injection of Commercial/Industrial Discharges (VH)		7	0	1	8

* = A contaminant potentially associated with this activity has been detected in the water supply.

TO: Angela O'Brien, Zone 7 Water Agency

FROM: Jon Konnan, EOA, Inc.

DATE: June 29, 2001

SUBJECT: PCA Inventory Forms and Maps for Hopyard Well No. 6 and Stoneridge Well No. 1

EOA, Inc. (EOA) prepared this memo and the attached forms and maps to assist Zone 7 perform source water assessments for Zone 7's Hopyard Well No. 6 and Stoneridge Well No. 1. Zone 7 is performing these assessments in accordance with the California Department of Health Service's (DHS's) Drinking Water Source Assessment and Protection (DWSAP) program. The DHS's Division of Drinking Water and Environmental Management developed the DWSAP program to meet state and federal requirements to assess the vulnerability to contamination of California's drinking water sources.

The attached Possible Contaminating Activities (PCA) Inventory Forms are based on field observations and available regulatory agency records. Please note that there are a few rows in the PCA Inventory Forms that EOA did not fill out because we lacked information. Zone 7 should either complete these areas or place an "X" in the "Unknown" column. The PCA Inventory Forms are based on the following information:

- On June 7 and 8, 2001, EOA drove through the area within the protection zones (see the attached drinking water source assessment maps).
- EOA obtained information from the Dublin San Ramon Services District's wastewater pretreatment program regarding activities carried out by businesses within the protection zones.¹
- EOA obtained information about underground and above-ground hazardous material/waste storage tanks from the Livermore – Pleasanton Fire Department (LPFD).²
- EOA obtained information on contamination release sites, as described below.

Contamination release sites were identified for the assessment based on 1) Zone 7's toxics sites database, which was provided electronically to EOA during November 2000, and 2) the following data sets downloaded from the California Regional Water Quality Control, San Francisco Bay Region (Regional Board) web site during May 2001:

¹Information provided by Fernando Lomas of the Dublin San Ramon Services District, June 2001.

²Information provided by Annette Gibson of the Livermore – Pleasanton Fire Department, May 2001.

- LUSTIS (Leaking Underground Storage Tank Information System)
- SLIC (Spills, Leaks, Investigations, and Cleanup)
- List of Sites with MTBE Contamination

EOA also discussed contamination sites within the protection zones with the Alameda County Department of Environmental Health (ACDEH).³ All the sites known to the ACDEH were also in the Regional Board data sets.

The following sites were identified within the protection zones for Hopyard Well No. 6:

Shell, 3790 Hopyard Rd. – This site is identified in the LUSTIS, MTBE and Zone 7 toxics sites data sets, and is located within protection zone A. Contaminants identified by these sources include petroleum hydrocarbons and MTBE.

Exxon, 2991 Hopyard Rd. – This site is identified in the LUSTIS, MTBE and Zone 7 toxics sites data sets, and is located within protection zone B5. Contaminants identified by these sources include petroleum hydrocarbons and MTBE.

Hacienda Business Park, no address – This site is identified in the SLIC data set only. No address is given, but EOA noted in the field a site called Hacienda Business Park at 4100 Hacienda Dr., which is located within protection zone B10. Very little information is provided about the site in the SLIC data set. Under facility description “polluted well site” is entered. There is no information about types of contaminants, and the status of the site is listed as inactive.

GTE Mobilnet, 4440 Willow Rd. – This site is identified in the LUSTIS and Zone 7 toxics sites data sets, and is located within protection zone B5. The Zone 7 toxics sites database lists GTE Mobilnet at 4430 and 4440 Willow Rd. In the field EOA noted that 4440 Willow Rd. is occupied by Verizon Wireless. Contaminants identified by these sources include petroleum hydrocarbons.

The following sites were identified within the protection zones for Stoneridge Well No. 1:

Exxon, 3192 Santa Rita Rd. – This site is identified in the LUSTIS and Zone 7 toxics sites data sets, and is located within protection zone B10. Contaminants identified by these sources include petroleum hydrocarbons and MTBE. In the field EOA noted that this address is occupied by Steve’s Valero gas station. Please see the recent DWSAP for the Mocho Wells 1 – 3 well field for further information on this site.

Shell, corner of Santa Rita Rd. and Pimlico Dr. – This site is identified in the Zone 7 toxics sites data set only, and is located within protection zone B10. This data set identifies petroleum hydrocarbons as the contaminant of concern.

Combs Property, 1808 Courtney Ave. – This site is identified in the LUSTIS data set only, and is located within protection zone B10. EOA noted in the field that this address is located in a residential area. Based on LUSTIS it appears that low levels of petroleum hydrocarbons were found in soil only, and the site’s status is listed as “Case Closed: Regional Board (and Local Agency where appropriate) are in concurrence that no further action is necessary at the site.”

³Information provided by Scott Seery of the Alameda County Department of Environmental Health, February 2001.

Heller Seasonings, Inc., 2000 Oakland Ave. – This site is identified in the LUSTIS data set only. Please see the recent DWSAP for the Mocho Wells 1 – 3 well field for further information on this site.

STONERIDGE 1 WELL DATA SHEET (Page 1 of 2)

Complete as much information as possible. Leave blank if information is not available, use N.A. if not applicable.

* Indicates items required for Source Water Assessment

** Indicates additional items required for assessments and Ground Water Rule

	(separate multiple entries in field with semi-colon)	Actual, Estimated or Default?
DATA SHEET GENERAL INFORMATION		
System Name	Zone 7 Water Agency	from DHS database
System Number	110010	from DHS database
Source of Information (well log, DHS/County files, system, etc)	Well logs; site plans; site inspections	
Organization Collecting Information (DHS, County, System, other)	Zone 7 Water Agency	
Date Information Collected/Updated	February, 2002	
WELL IDENTIFICATION		
* Well Number or Name	Stoneridge Well No. 1	from DHS database
* DHS Source Identification Number (FRDS ID No.)	0110010-010	from DHS database
DWR Well Log on File? (yes or no)	Yes	
State Well Number (from DWR)	3S/1E-9B1	from DHS database
Well Status (Active, Standby, Inactive)	Active	
WELL LOCATION		
Latitude	37.6922837	Estimated via Ashtech GPS unit
Longitude	-121.867159	Estimated via Ashtech GPS unit
Ground Surface Elevation (ft above MSL)	348.4	
Street Address	Martin Ave & Arroyo Mocho	
Nearest Cross Street	Stoneridge Dr & Comanche Way	
City	Pleasanton	
County	Alameda	
* Neighborhood/Surrounding Area (see Note 1)	Re	
Site plan on file? (yes or no)	Yes	
DWR Ground Water Basin	Livermore-Amador Valley	from DWR report
DWR Ground Water Sub-basin	Amador	from DWR report
SANITARY CONDITIONS		
** Distance to closest Sewer Line, Sewage Disposal, Septic Tank (ft)	60	Estimate
Distance to Active Wells (ft)		
Distance to Abandoned Wells (ft)	1700	Estimate
Distance to Surface Water (ft)	53	Estimate
** Size of controlled area around well (square feet)	32,252	Actual
* Type of access control to well site (fencing, building, etc)	gated fence; locked & alarmed building	
* Surface Seal? (Concrete slab)(yes or no)	Yes	
* Dimensions of concrete slab: Length(ft)/ Width(ft)/ Thick(in)	48/48/8	
* Within 100 year flood plain? (yes or no)	No	
* Drainage away from well? (yes or no)	Yes	
ENCLOSURE/HOUSING		
Enclosure Type (building, vault, none, etc.)	Building	
Floor material	Concrete	
Located in Pit? (yes or no)	No	
Pit depth (feet) (if applicable)	N/A	
WELL CONSTRUCTION		
Date drilled	11/91 - 4/92	Actual
Drilling Method	Reverse	
Depth of Bore Hole (feet below ground surface)	1003	Actual
Casing Beginning Depth/Ending Depth(ft below surface); 2nd Casing Beginning Depth/Ending Depth; 3rd Casing, etc.	0/90; 0/250	Actual
Casing Diameter (inches); 2nd Casing Diameter; 3rd Casing, etc.	40;20	
Casing Material; 2nd Casing Material; 3rd Casing, etc.	Steel; Steel	
		Actual, Estimated or Default?
WELL CONSTRUCTION (continued)		
Conductor casing used? (yes, no or not sure) (See Note 2)	Yes	
Conductor casing removed? (yes, no or not sure)	No	
* Depth to highest perforations/screens(ft below surface)	250	Estimate
Screened Interval Beginning Depth/Ending Depth (ft below surface); 2nd Screened Interval Beg. Depth/Ending Depth; 3rd Screened Interval, etc.	250/290; 405/425; 480/500; 515/545; 650/690; 700/720; 745/755; 770/800	Estimate
* Total length of screened interval (ft) (default = 10% pump capacity in gpm)	210	Estimate
* Annular Seal?(yes, no, or not sure) (See Note 3)	Yes	
* Depth of Annular Seal (ft)	90	
Material of Annular Seal (cement grout, bentonite, etc.)	Cement Grout	

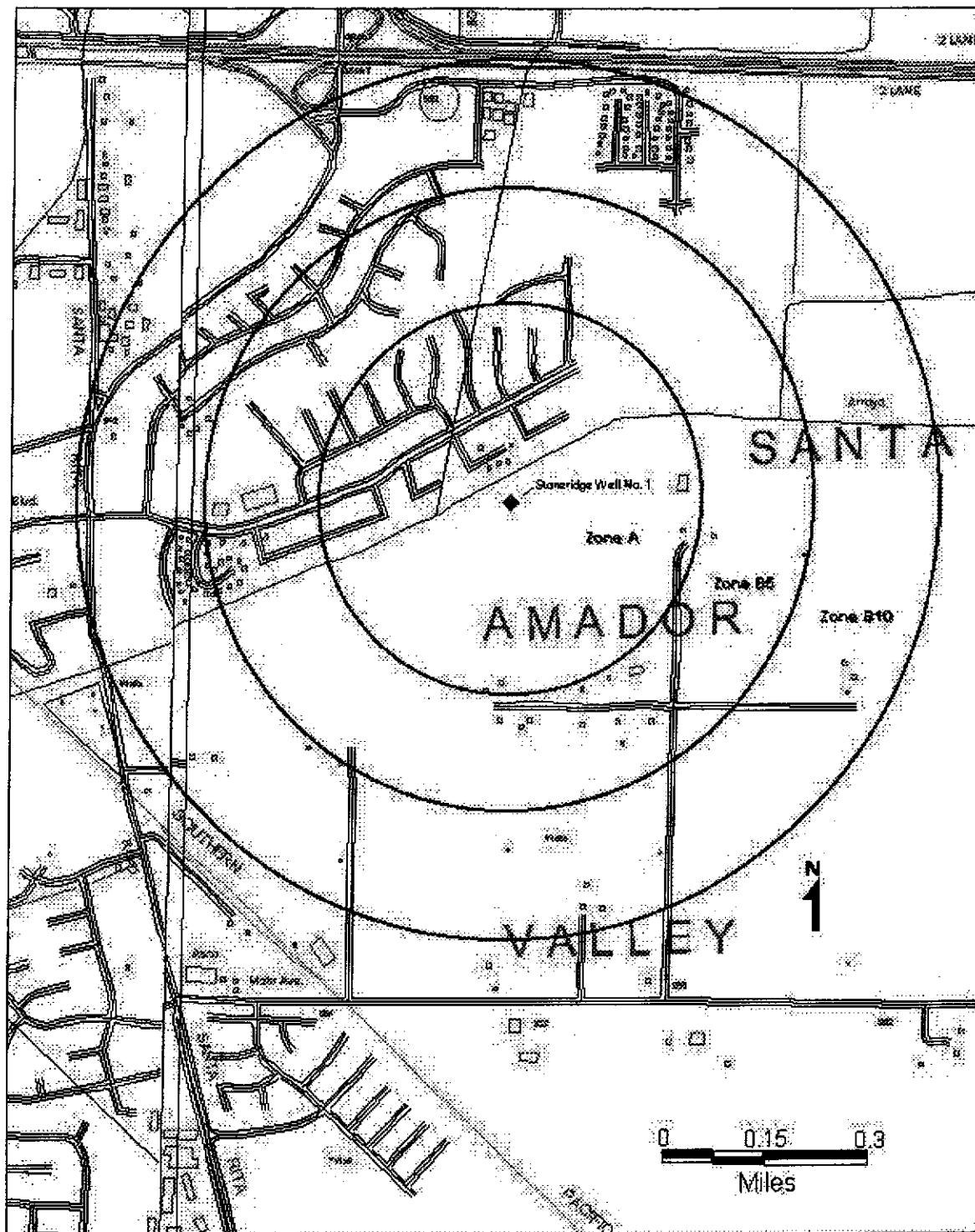
STONERIDGE 1 WELL DATA SHEET (Page 2 of 2)

Complete as much information as possible. Leave blank if information is not available, use N.A. if not applicable.

* Indicates items required for Source Water Assessment

** Indicates additional items required for assessments and Ground Water Rule

Gravel pack, Depth to top (ft below ground surface)	90	Effective
Total length of gravel pack (ft)	730	Effective
AQUIFER		
* Aquifer Materials <i>(list all that apply: sand, silt, clay, gravel, rock, fractured rock)</i>	sand; silts; clay; gravel	Estimate
* Effective porosity (decimal percent) <i>(default = 0.2)</i>	0.18	Estimate
* Confining layer (Impervious Strata) above aquifer? <i>(yes, no or not sure)</i>	Yes	Estimate
Thickness of confining layer, if known (ft)	50	
Depth to confining layer, if known (ft below ground)	133	
* Static water level (ft below ground surface)	156.4	Actual
Static water level measurement: Date/Method	October, 2001; Powers sounder	Actual
Pumping water level (ft below ground surface)	167	Estimate
Pumping water level measurement: Date/Method	August, 2001	
WELL PRODUCTION		
Well Yield (gpm)	4800	Actual
Well Yield Based On (i.e., pump test, etc.)	Pump Test	Actual
Date measured	6/24/96	Actual
Is the well metered? (yes or no)	Yes	
Production (gallons per year)	420,480,000	Projected estimate
Frequency of Use (hours/year)	1460 (projected)	Estimate
Typical pumping duration (hours/day)	Zero to 24	Estimate
PUMP		
Make	Peabody Floway	
Type	DWT	
Size (hp)	700	
* Capacity (gpm)	4700	Estimate
Depth to suction intake (ft below ground surface)	230	
Lubrication Type	Water	
Type of Power: <i>(i.e., electric, diesel, etc.)</i>	Electric	
Auxiliary power available? (yes or no)	None	
Operation controlled by: <i>(i.e., level in tank, pressure, etc.)</i>	Remote/Manual	
Pump to Waste capability? (yes or no)	Yes	
Discharges to: <i>(i.e., distribution system, storage, etc.)</i>	Distribution System	
REMARKS AND DEFECTS (use additional sheets as necessary)		
NOTES		
<p>1. Neighborhood/Surrounding Area (list all that apply): A= Agricultural, Ru = Rural, Re = Residential, Co = Commercial, I = Industrial, Mu = Municipal, P = Pristine, O = Other</p> <p>2. Conductor Casing - Oversized casing used to stabilize bore hole during well construction. Should be removed during installation of annular seal.</p> <p>3. Annular Seal - Seal of grout in the space between the well casing and the wall of the drilled hole. Sometimes called "sanitary seal".</p>		



**Drinking Water Assessment Map
Zone 7 Water Agency Stoneridge Well No. 1
June 2001**

