Malibu Valley Groundwater Basin

- Groundwater Basin Number: 4-22
- County: Los Angeles
- Surface Area: 610 acres (1.0 square miles)

**Basin Boundaries and Hydrology**
Malibu Valley Groundwater Basin is a small alluvial basin located along the Los Angeles County coastline. The basin is bounded by the Pacific Ocean on the south and by non water-bearing Tertiary age rocks on all remaining sides. The valley is drained by Malibu Creek to the Pacific Ocean. Average annual precipitation ranges from 14 to 16 inches.

**Hydrogeologic Information**

**Water Bearing Formations**
Groundwater is found principally in Holocene alluvium which consists of clays, silts, sands, and gravels. Thickness of the alluvium ranges from 90 feet at the upper end to more than 140 feet at the lower end (DWR 1975).

**Restrictive Structures**
The Malibu Coast fault crosses the valley but is not a groundwater barrier (DWR 1975).

**Recharge Areas**
Recharge of the basin is from percolation of precipitation, runoff, and effluent from domestic septic systems.

**Groundwater Level Trends**
Groundwater moves south towards the Pacific Ocean.

**Groundwater Storage**
Groundwater Storage Capacity. No information is available.

Groundwater in Storage. No information is available.

**Groundwater Budget (Type C)**
No information is available.

**Groundwater Quality**
Characterization. Analysis of water from one well sampled in 1967 shows a TDS content of 1,310 mg/L (DWR 1975).

Impairments. Seawater intrusion occurred in 1950, and again in 1960, when seawater advanced 0.5 miles inland (DWR 1975). In December 1954 and April 1969, chloride concentrations exceeding 100 mg/L were found in groundwater in the coastal part of the basin (DWR 1975).
Well Production characteristics

<table>
<thead>
<tr>
<th>Well yields (gal/min)</th>
<th>市政/灌溉范围</th>
<th>Range: 1,000–1,060 gal/min</th>
<th>Average: 1,030 gal/min (2 Well Completion Reports)</th>
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</thead>
<tbody>
<tr>
<td>总深度（英尺）</td>
<td>Domestic</td>
<td>Range: 104-550 ft</td>
<td>Average: 293 ft (7 Well Completion Reports)</td>
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<tr>
<td>总深度（英尺）</td>
<td>市政/灌溉范围</td>
<td>Range: 150-158 ft</td>
<td>Average: 154 ft (2 Well Completion Reports)</td>
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</tbody>
</table>

Active Monitoring Data

<table>
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<tr>
<th>剂量</th>
<th>参数</th>
<th>剂量</th>
<th>测量频率</th>
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</thead>
<tbody>
<tr>
<td>Agency</td>
<td>Parameter</td>
<td>Number of wells/measurement frequency</td>
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</tr>
<tr>
<td>部门</td>
<td>地下水位</td>
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<tr>
<td>部门</td>
<td>一般水质量</td>
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<tr>
<td>部门</td>
<td>水质量</td>
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<tr>
<td>部门</td>
<td>额外参考</td>
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</tbody>
</table>

Basin Management

地下水资源管理:

水力机构

- 公共
  - 洛杉矶县公共工程部
- 私有
  - 皮韦水公司

References Cited


Additional References


Errata

Changes made to the basin description will be noted here.