EXHIBIT "I-9"
PART D
Maunalei Shaft 1

Well No. 5253-01  
Drilled 1936  
Ground Elevation 294'  
Depth 293'  
Bottom of Hole 1  
Initial Water Level 2.4'  
Initial Chlorides 374 mg/L  
Pump Horizontal skimming shaft  
Last Replaced  
Use 1937-?  
Notes:  
Could never deliver more than 100,000 GPD without appreciable increase in chlorides.
Maunalei Shaft 2

Well No. 5154-01
Drilled 1936
Ground Elevation 851' (875' at portal)
Depth 372'
Bottom of Hole 479'
Initial Water Level 739'
Initial Chlorides 31 mg/L
Pump 500 gpm electric line shaft
Last Replaced 1987 reconditioned
Use 1937 - 1995 potable off line since 07/95

Shaft 2 was once the major source for Lana‘i City. It had a 600 GPM submersible pump per 1991 sanitary survey, 900 GPM per 1998 sanitary survey. Not mentioned in 2005 sanitary survey. Booster Byron Jackson VLT vertical booster - variable 0 to 600 GPM 200 HP, 3600 RPM, 444 VP Frame, 225 Amp F1 Electric Motor. One hundred thirty five feet down from the entrance to shaft 2 is a vertical well. Water was pumped to a booster station. A 1989 report noted water levels dropping in both Maunalei Tunnels & Maunalei Shaft due to drought conditions. Periodic Water Reports indicate zero use starting in 1995.
Maunalei Tunnel 2 ("Upper")

Well No. 5053-02
Drilled 1911
Ground Elevation 1,500'
Depth - - - - - -
Bottom of Hole - - - - - -
Initial Water Level 1,500
Initial Chlorides - - - - - -
Pump - - - - - -
Last Replaced - - - - - -
Use 1926-1991 potable

Notes:
Was once major source for city. Combined yield of Upper & Lower tunnels was once about 275,000 GPD, with another 220,000 GPD from the shaft, or nearly half a million GPD from the combined Maunalei sources. A 1989 company report notes water levels dropping in both Maunalei Tunnels & Maunalei Shaft due to drought conditions. Periodic Water Reports indicate no flows as of 1995. However, 1998 Sanitary Survey indicates that the Lower Tunnel still provides water to a boy scout camp & a bee keeping facility. 30,000 gallon steel tank is chlorinated manually to accommodate events. Costs of using Maunalei to serve city considered too high. Tunnels could be GWUDI.
Maunalei Tunnel 1 ("Lower")

Well No. 5053-01
Drilled 1911
Ground Elevation 1,103'
Depth - - - -
Bottom of Hole - - - -
Initial Water Level 1,103
Initial Chlorides - - - -
Pump - - - -
Last Replaced - - - -
Use 1926-1995 potable
Notes: Was once major source for city. Combined yield of Upper & Lower tunnels was once about 275,000 GPD, with another 220,000 GPD from the shaft, or nearly half a million GPD from the combined Maunalei sources. A 1989 company report notes water levels dropping in both Maunalei Tunnels & Maunalei Shaft due to drought conditions. Periodic Water Reports indicate no flows as of 1995. However, 1998 Sanitary Survey indicates that the Lower Tunnel still provides water to a boy scout camp & a bee keeping facility. 30,000 gallon steel tank is chlorinated manually to accommodate events. Costs of using Maunalei to serve city considered too high. Tunnels could be GWUDI.
FIGURE 3-47. Well 1

Well 1

Well No. 4853-02
Drilled 1945
Ground Elevation 1,265
Depth 1,274
Bottom of Hole -9
Initial Water Level 876
Initial Chlorides - - - - - mg/L
Pump 340 GPM submersible Crown
3,470 RPM, 9 Stages
Hitachi 100 HP Motor Installed 2005
Rebuilt and Drive Line Shaft Replaced 1987
Motor Replaced 2005
Used 1937-Present
Irrigation - Manele

Notes:
"Due for major overhaul" JH Parker, 1989
600 GPM pump 2002
Throttled back to 300 in October 2003
Replaced with 340 GPM pump in 2005
FIGURE 3-48. Well 2 / Shaft 3

Well 2 / Shaft 3

Well No. 4953-01
Drilled 1946
Ground Elevation 1,510'
Depth 609
Bottom of Hole 901'
Initial Water Level
Initial Chlorides - - - - - mg/L
Pump
1200 GPM vertical turbine
Fairbanks Morse Pomona
Ingersoll Rand Booster 75 HP
Electric motor FL Amp 90 480 Volt

Last Replaced - - - - -
Use 1946 - present
Potable.
Used for irrigation in past.

Notes: Well 2 / Shaft 3 was once the major source for the plantation
Water deliveries declined during the 1980s "due to drought".
By 1989, the pump was nearing need of replacement.
A 1989 report listed the pump as an electric powered line shaft.
FIGURE 3-49. Well 3 - Old

Well 3 – “Old” (No Well Completion Report for New Well 3 Yet)

Well No. 4954-01
Drilled 1950
Ground Elevation 1,850'
Depth 1,199
Bottom of Hole 651'
Initial Water Level 1,078'
Initial Chlorides - - - - - - - mg/L
Pump 900 GPM Byron Jackson submersible
300 HP electric motor FL Amp 74
Last Replaced 1978
Use 1950 - present
Potable.
Used for irrigation in past.
Could serve City or Manele.

Notes:
FIGURE 3-50. Well 4

Well 4

Well No. 4952-02
Drilled 1950
Ground Elevation 2,327’
Depth 1,178’
Bottom of Hole 1,149’
Initial Water Level 1,576’
Initial Chlorides - - - - - - - mg/L
Pump 900 GPM submersible Byron Jackson
300 HP electric motor 2300 volts
Last Replaced Motor Replaced 2006, 1984
Use 1950 - present
Potable. Can be used for irrigation too.

Notes: As of the 1989 report, this was the "best" well on the island, carried 20% of the withdrawal load. Per 1999 sanitary survey, average flow was 1,000 GPM.
Well 5

Well No. 4852-02
Drilled 1950
Ground Elevation 2,296'
Depth 1,122'
Bottom of Hole 1,174'
Initial Water Level 1,548'
Initial Chlorides - - - - - - - mg/L
Pump 900 GPM submersible Byron Jackson
Last Replaced 1984
Use Not in use since 1994.

Potable or Irrigation.
Was used for irrigation - especially as back-up for south slopes

Notes: Water deliveries from this pump were declining by the late 1980s.
FIGURE 3-52. Well 6

Well 6

Well No. 5054-02
Drilled 1986
Ground Elevation 1,910’
Depth 1,310’
Bottom of Hole 600’
Initial Water Level 1,005’
Initial Chlorides 23 mg/L
Pump 550 GPM submersible Byron Jackson
Motor 1800 RPM
Motor 200 HP Type H 14” Volt
Last Replaced 2006
Use 1990-present
Potable Municipal
Notes: Currently serves Lana’i City & related areas.
FIGURE 3-53. Well 7

Well 7

Well No. 5055-01
Drilled 1987
Ground Elevation 2,100'
Depth 1,650'
Bottom of Hole 450'
Initial Water Level 650'
Initial Chlorides 67 mg/L
Pump 500 GPM Layne Bowler Vertical turbine oil lubricated Cumming NTA 8559 Prime Mover Engine 230 Net BHP, 1800 RPM
Last Replaced 1987
Use Not in use Potable Irrigation or Municipal
Notes: Had direct feed to the irrigation system at the north end of the plantation.

Well 7 - Pumpage

Well 7 - Chlorides

Well 7 - Water Levels

Monthly Precipitation - Lanai City
FIGURE 3-54. Well 8

Well 8

Well No. 4954-02
Drilled 1990
Ground Elevation 1,902
Depth 1,490’
Bottom of Hole 412’
Initial Water Level 1,014’
Initial Chlorides 40 mg/L
Pump 850 GPM submersible Byron Jackson
300 HP Type H 14” Byron Jackson Motor
F1 Amp 74 2300 Volt

Last Replaced 1991
Use 1995-present
Potable. Municipal.

Notes 1998 sanitary survey noted avg flow of 705 GPM.
Rise in water levels reported in 2002 appears to have been due to a change in measurement method.

Well 8 - Pumpage

Well 8 - Chlorides

Well 8 - Water Levels

Monthly Precipitation - Lanai City

3-72
**FIGURE 3-55. Well 9**

**Well 9**
- **Well No.:** 4854-01
- **Drilled:** 1990
- **Ground Elevation:** 1,411
- **Depth:** 1,451’
- **Bottom of Hole:** -40’
- **Initial Water Level:** 808
- **Initial Chlorides:** - - - - - - mg/L
- **Pump:** 300 GPM submersible Byron Jackson Franklin Electric 100 HP F1 Amp 148 480 Volt Motor, 2005, Pump, 1993
- **Last Replaced Use:** Manele GC & Landscape Irrigation
- **Last Replaced:** 2005
- **Pump:** Motor, 1993
- **Use:** Manele GC & Landscape Irrigation
- **Pump lowered 42’ in 10/2003**
This experimental well was drilled in part to try to test the extent of the utilizable aquifer at the edges of the Palawai Basin.

Well 10

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<td>Depth</td>
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<tr>
<td>Initial Chlorides</td>
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<td>Pump</td>
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<tr>
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<td>1993</td>
</tr>
<tr>
<td>Use</td>
<td></td>
</tr>
</tbody>
</table>

Notes: *Discrepancy between CWRM database and Lana’i Water Resources Report. Lana’i WR report est of 1,300 mg/L makes more sense at that elevation.