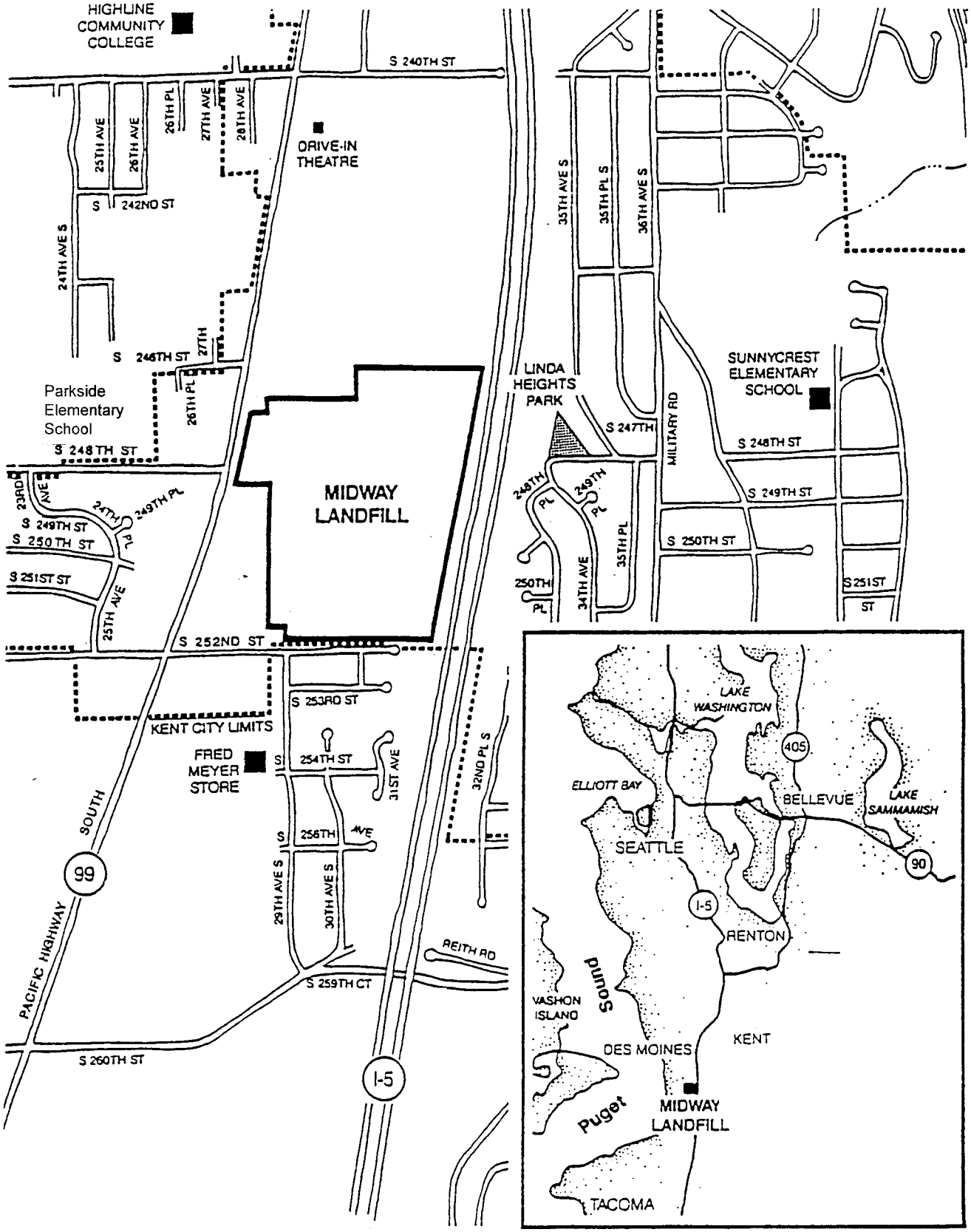
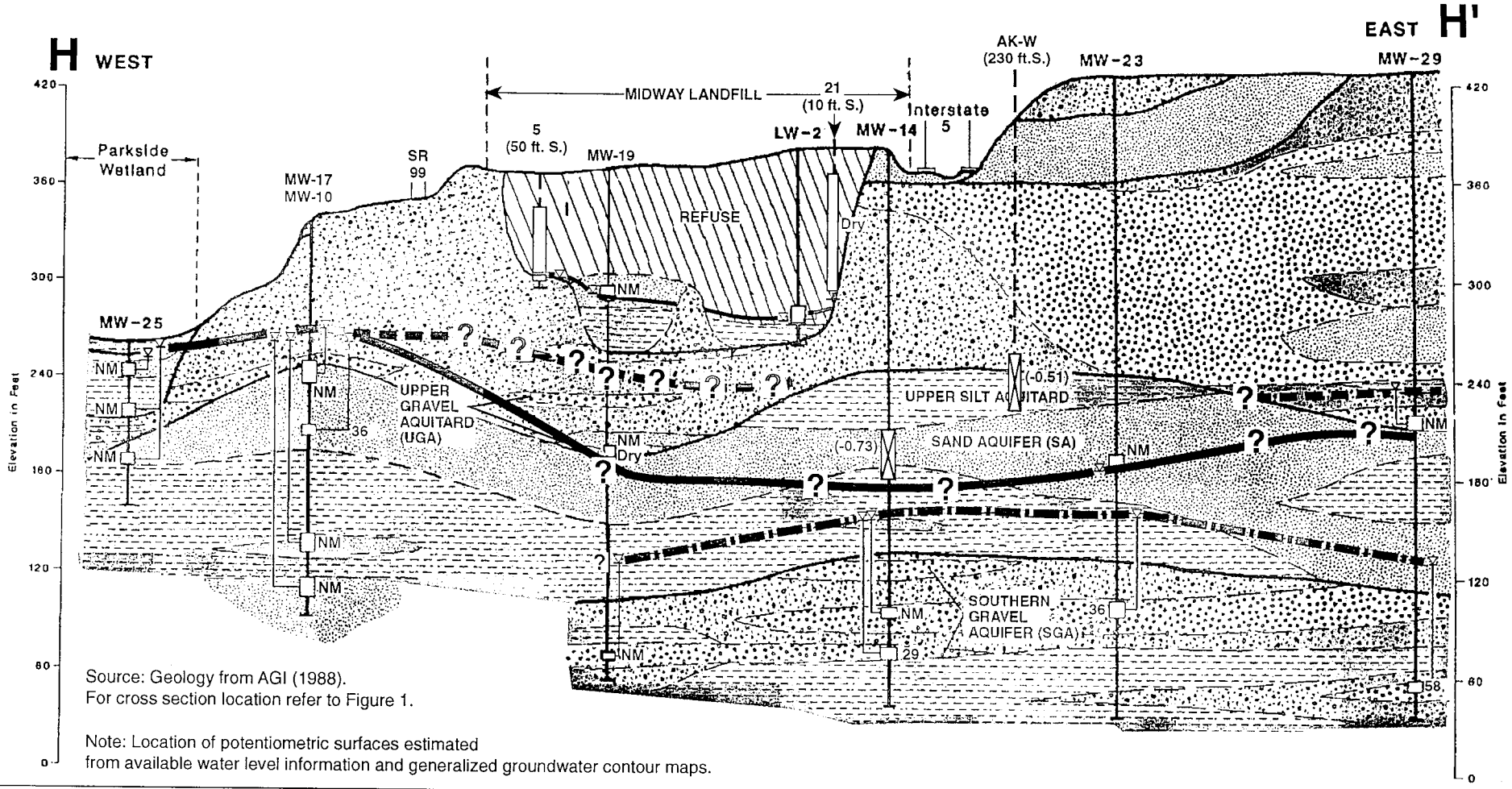


SCALE IN FEET

0 500 1,000

N

Figure 1-1.
Site Location Map
Midway Landfill
Kent, Washington



Source: Geology from AGI (1988).
For cross section location refer to Figure 1.

Note: Location of potentiometric surfaces estimated from available water level information and generalized groundwater contour maps.

Parametrix, Inc. Midway Cap/555-1550-039(04) 3/00 (K)

MW-10 — Well number
Land surface — Approximate groundwater elevation on 4/12/99 – 4/15/99
Screened interval
164 — Chloride concentration (mg/L) measured in groundwater samples collected in 1998
Major stratigraphic unit contact
Base of boring — Geologic contact

SCALE IN FEET
0 300 600

Municipal landfill refuse
Poorly sorted mixture of silt, sand, and gravel
Sand and gravel
Sand
Silt, clay, and silty fine sand
Organic sediments
Lower permeability layers
Gas probe

NM Chloride concentration not measured because well not part of the compliance monitoring network or insufficient water in well for sample collection
ND No data, measurement not collected
Dry No fluid detected
Approximate UGA potentiometric surface, queried where inferred
Approximate SA potentiometric surface, queried where inferred
Approximate SGA potentiometric surface, queried where inferred
(-4.8) Average static pressure (inches–water column) in 1998 measured weekly or monthly.

Figure 5-1.
Post-Remedial Conditions (1998-1999), Hydrogeologic Section H-H', with Chloride Concentrations and Gas Probe Static-Pressure Measurements Midway Landfill Kent, Washington

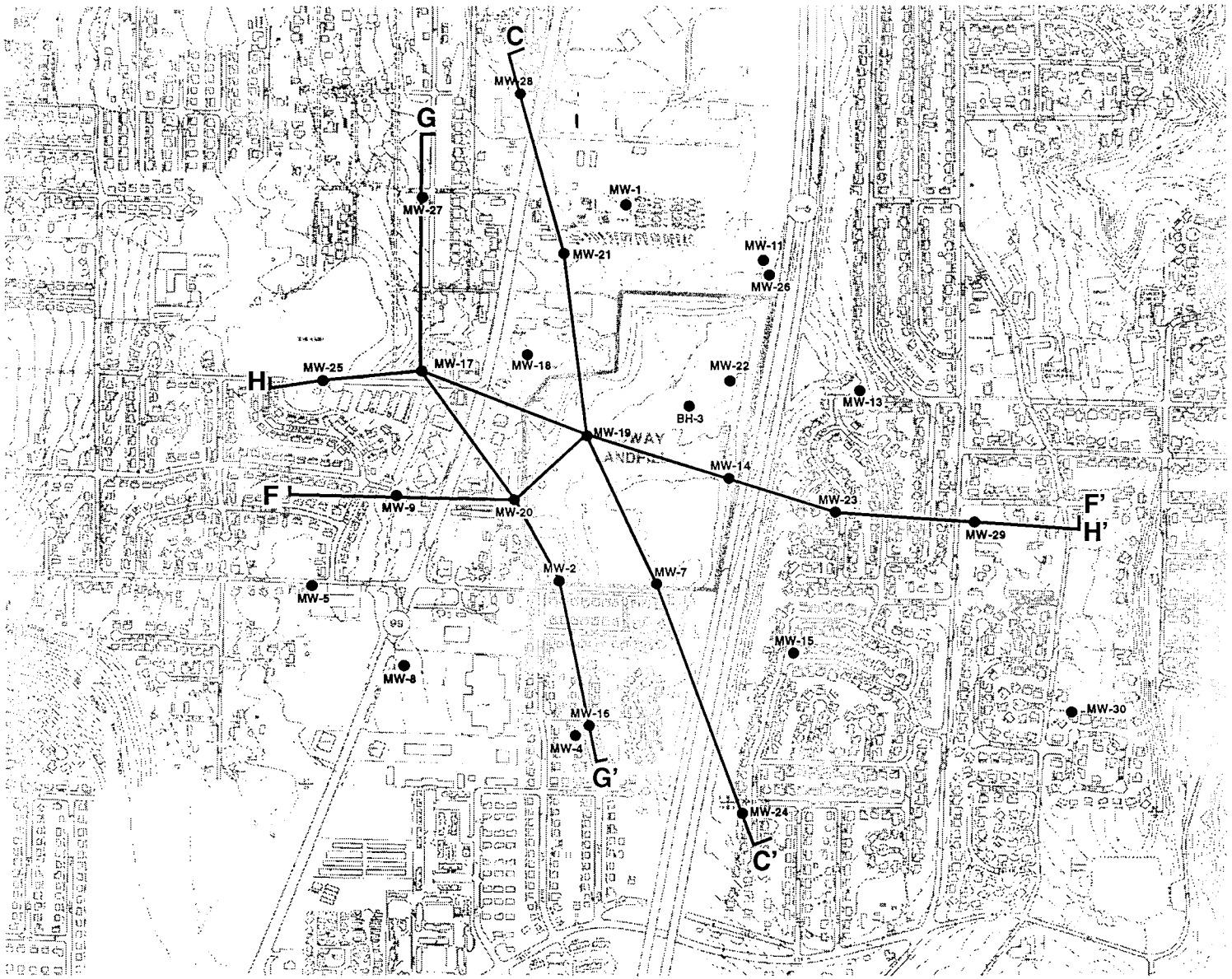


Figure 5-2.
Line of Geologic Section Map Midway Landfill Kent, Washington

Base Map Source: AGI (1990)

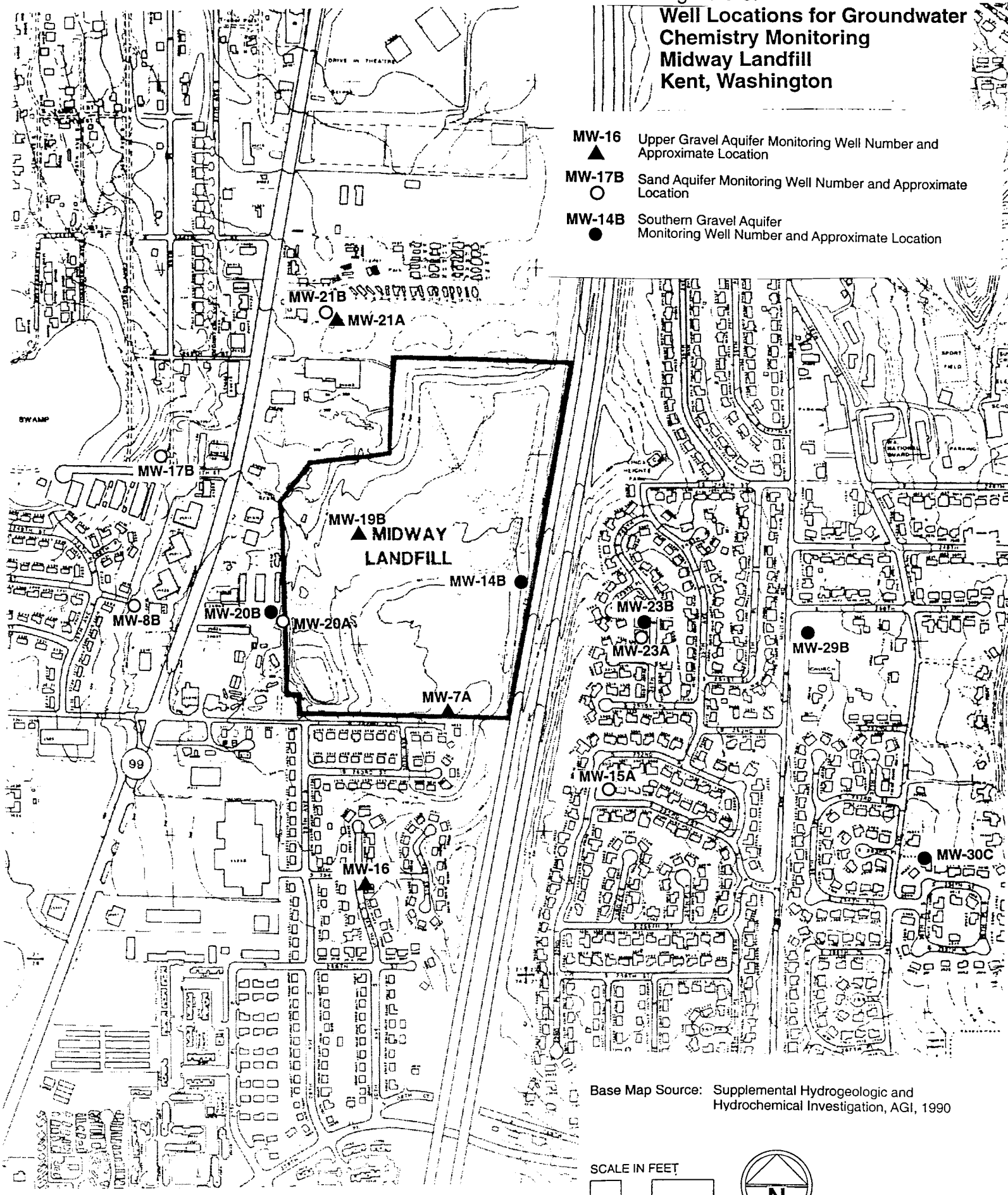
SCALE IN FEET
0 300 600

N

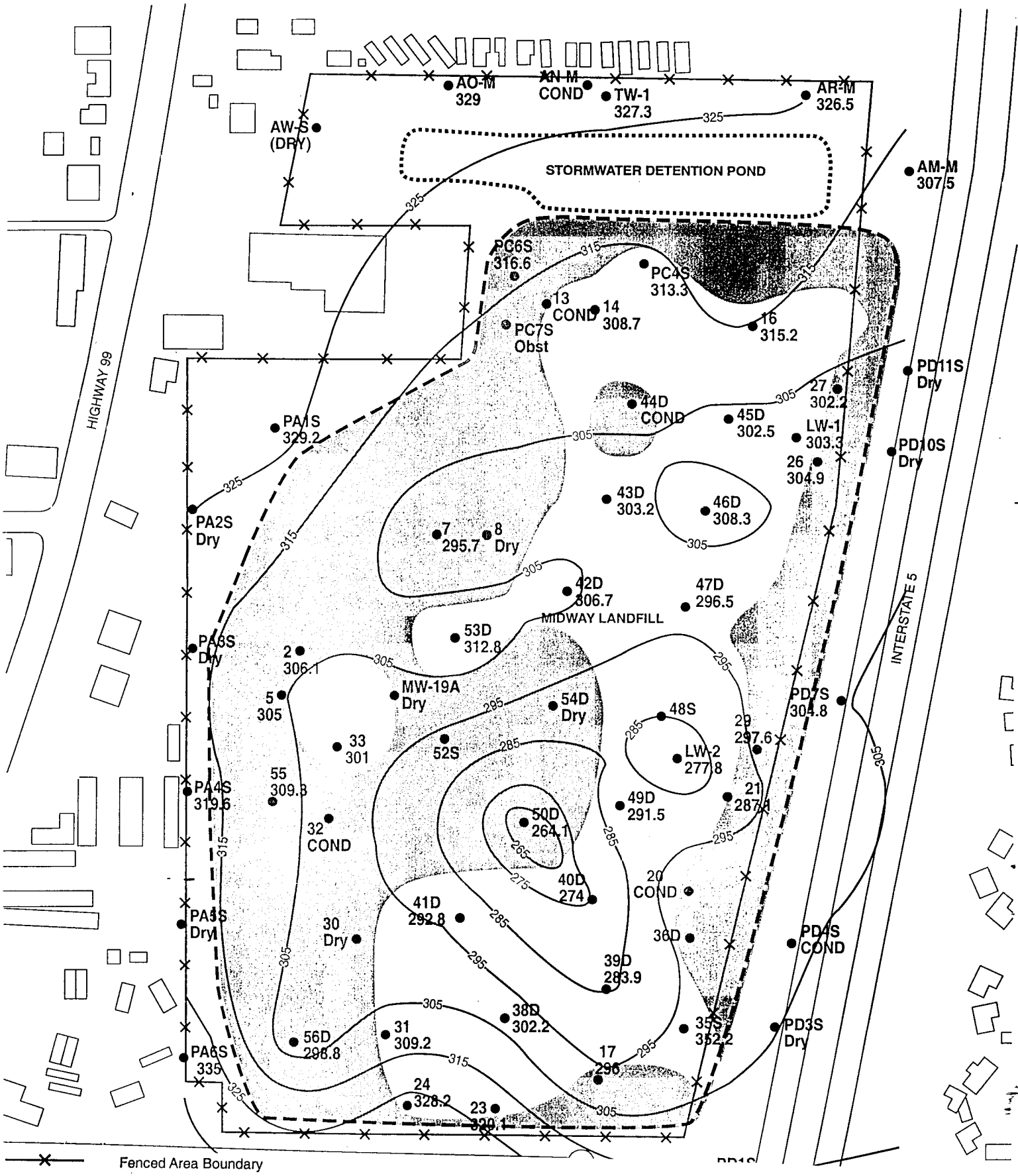
Midway Cap/555-1550-037(04) 12/99 (K)

Figure 5-3.

Well Locations for Groundwater Chemistry Monitoring Midway Landfill Kent, Washington

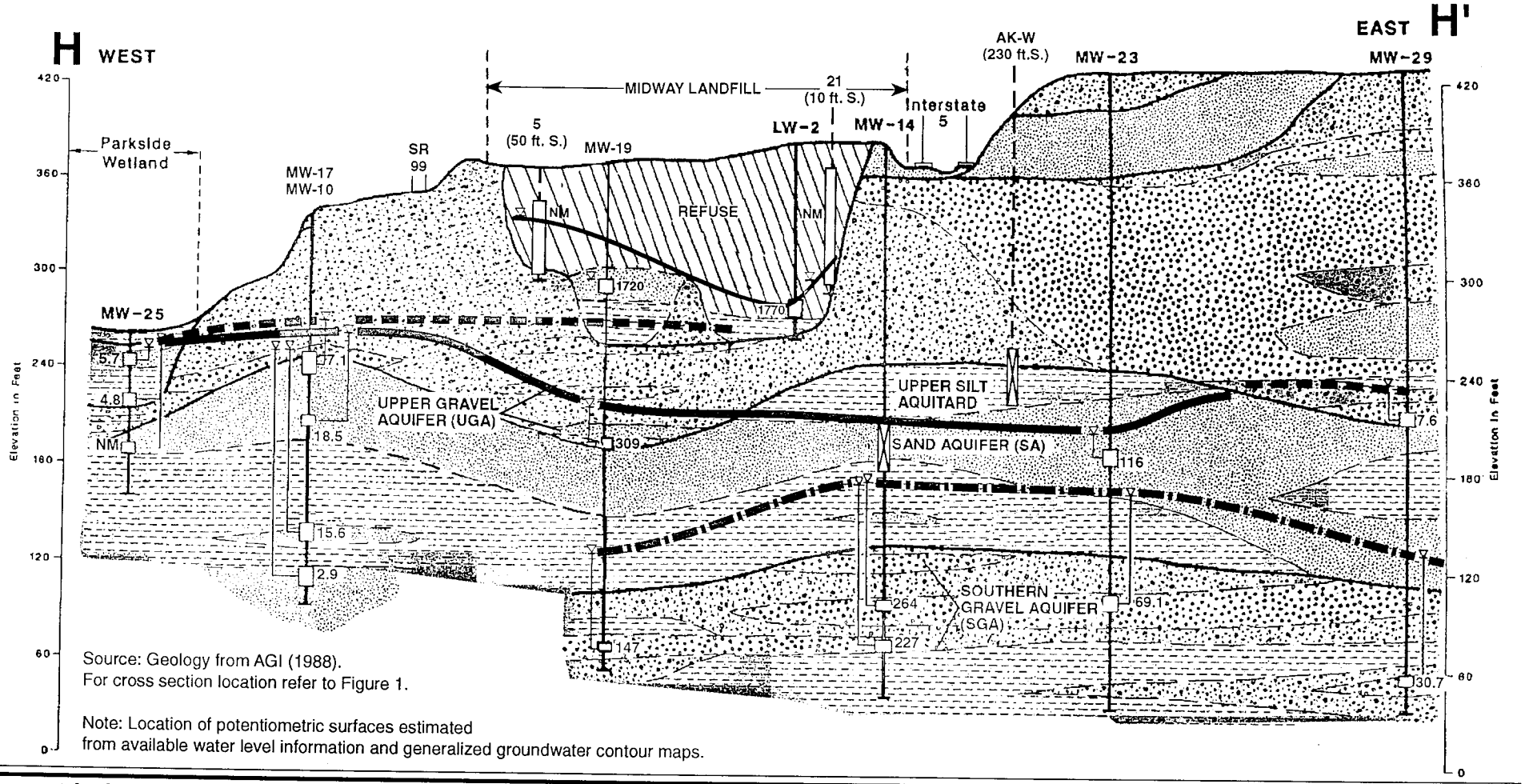


Midway/555-1550-037(04) 12/99 (K)



—×—	Fenced Area Boundary
320.00	Fluid Level Contour. Interval equals 10 feet. Contour placement is approximate.
● 40D 275.8	Well number and approximate location, showing leachate or groundwater elevation. Fluid elevations measured November 1998.
● 48S COND	Condensate is present in well. Data point not used for potentiometric surface calculations.
● 54D DRY	Well is dry. Data point not used for potentiometric surface calculations.
	Approximate Area Where Potentiometric Surface is Below Refuse Based on Intersection of November 1998 Potentiometric Surface with Base of Refuse

Figure 5-4.
Shallow Groundwater/ Saturated Refuse Potentiometric Surface Map - November 1998 Midway Landfill Kent, Washington



Parametrix, Inc. Midway Cap/555-1550-039(04) 3/00 (K)

MW-10 — Well number
Land surface
Approximate groundwater elevation measured Fall 1987. Leachate elevations measured 2/87.
Screened interval
164 — Geologic contact
Major stratigraphic unit contact
Chloride concentration (mg/L) measured in RI Round #4 (7/87)
Base of boring

SCALE IN FEET
0 300 600

Municipal landfill refuse
Poorly sorted mixture of silt, sand, and gravel
Sand and gravel
Sand
Silt, clay, and silty fine sand
Organic sediments
Lower permeability layers
Gas probe

NM Chloride concentration not measured because well not part of the compliance monitoring network or insufficient water in well for sample collection
ND No data, measurement not collected
Dry No fluid detected
Approximate UGA potentiometric surface, queried where inferred
Approximate SA potentiometric surface, queried where inferred
Approximate SGA potentiometric surface, queried where inferred

Figure 5-5.
Pre-Remedial Conditions (1987), Hydrogeologic Section H-H', with Chloride Concentrations Midway Landfill Kent, Washington

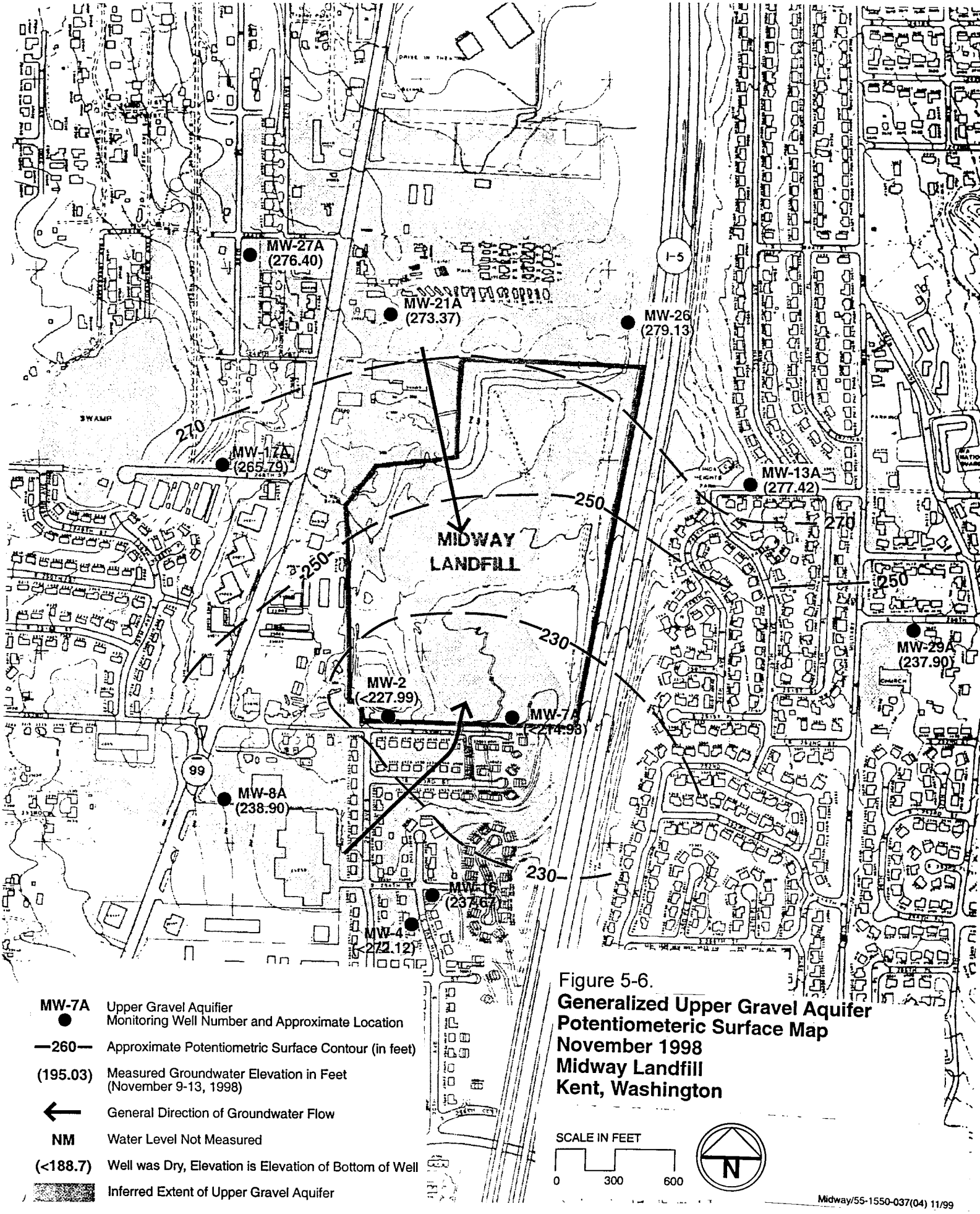


Figure 5-6.
Generalized Upper Gravel Aquifer Potentiometeric Surface Map November 1998 Midway Landfill Kent, Washington

Midway/55-1550-037(04) 11/99

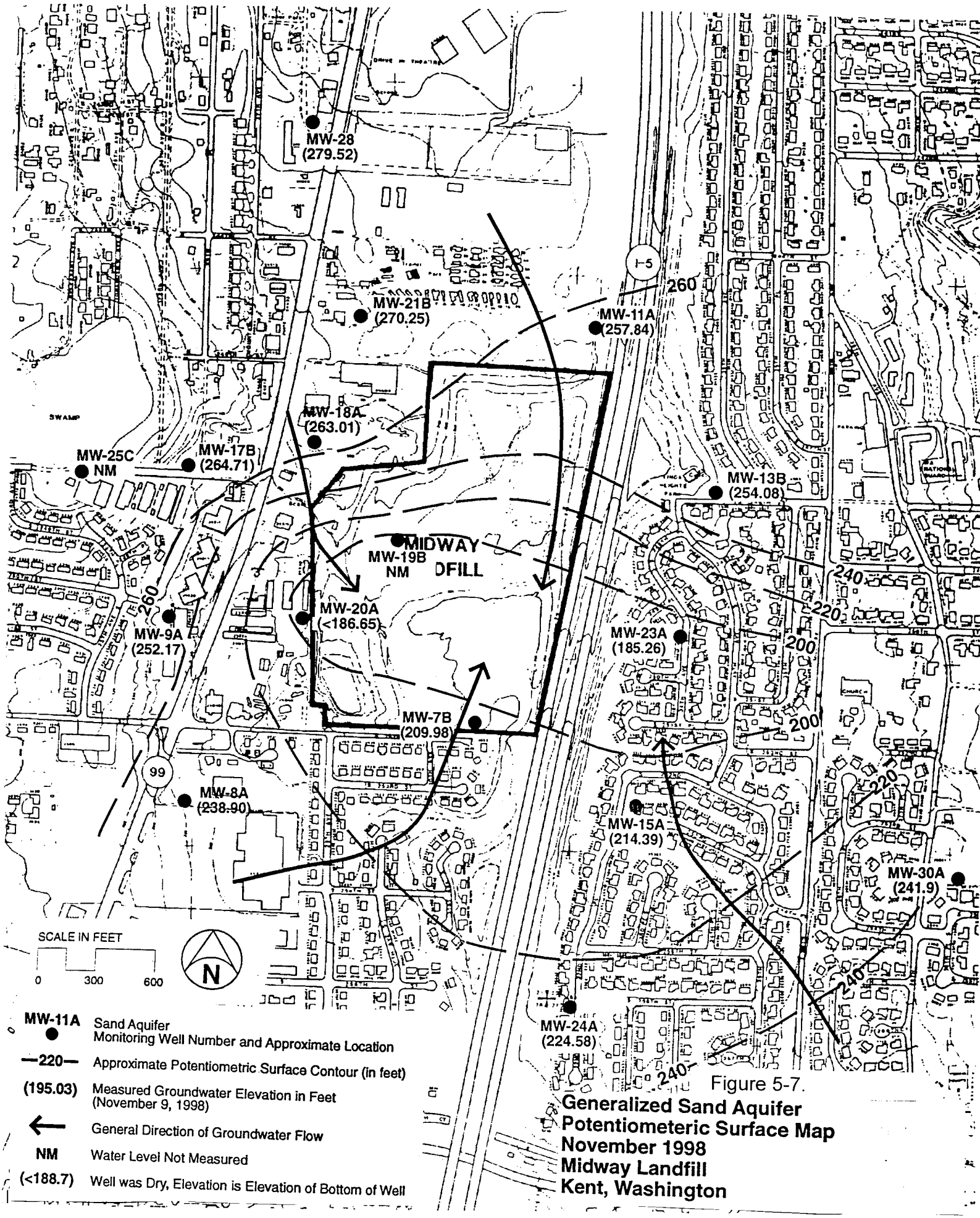
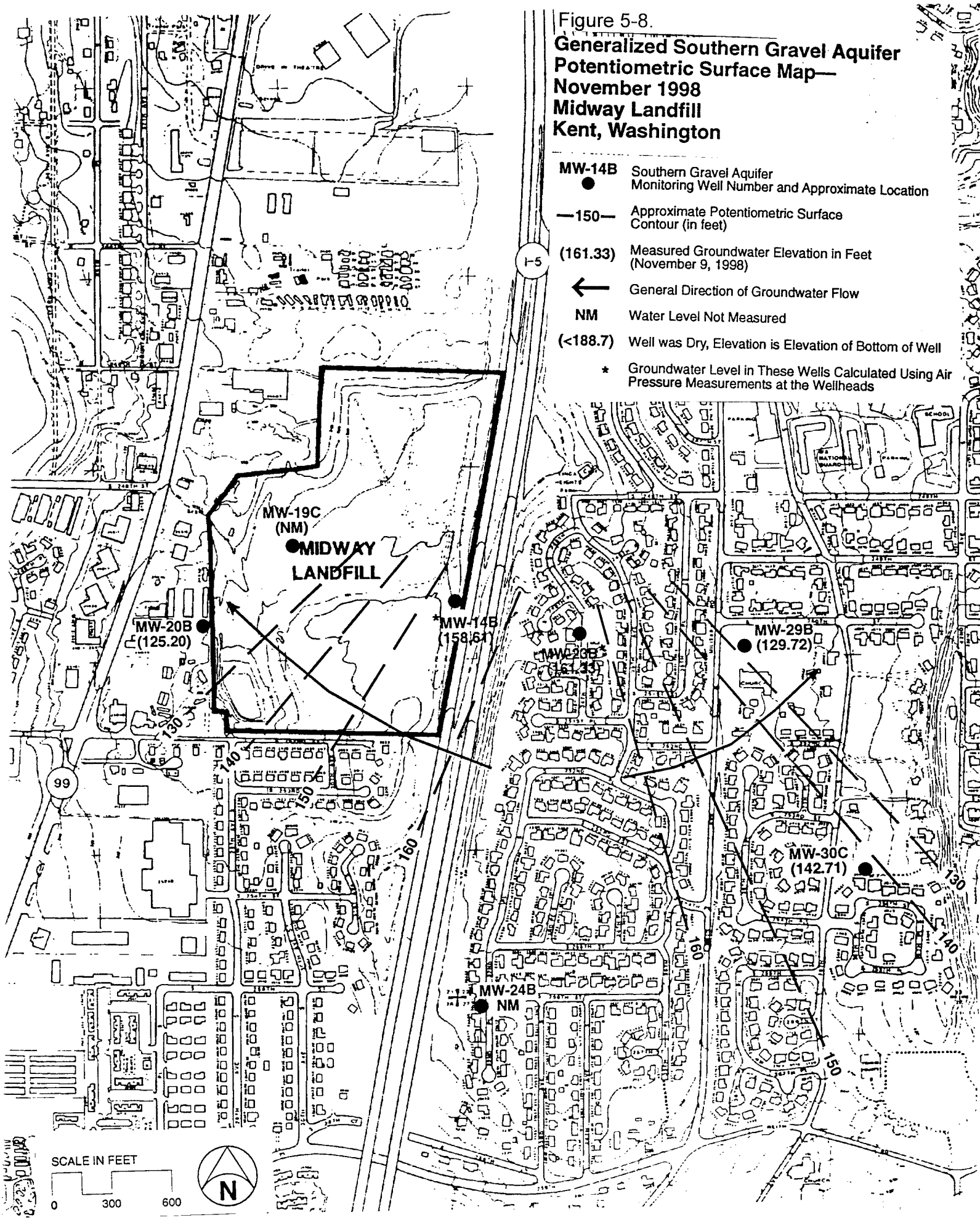


Figure 5-7.
Generalized Sand Aquifer Potentiometeric Surface Map November 1998 Midway Landfill Kent, Washington

Figure 5-8.

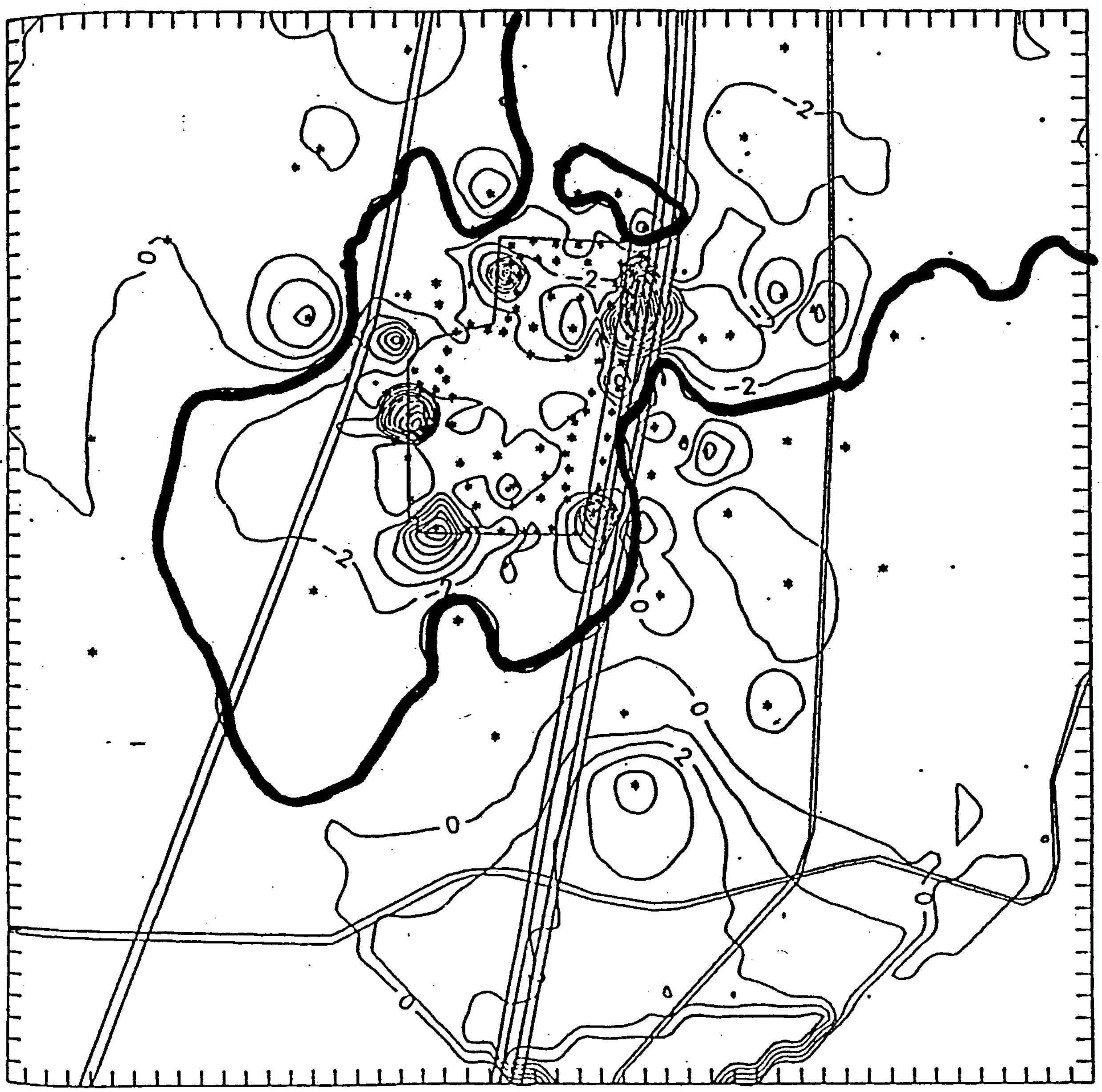
Generalized Southern Gravel Aquifer Potentiometric Surface Map— November 1998 Midway Landfill Kent, Washington

MW-14B ●	Southern Gravel Aquifer Monitoring Well Number and Approximate Location
—150—	Approximate Potentiometric Surface Contour (in feet)
(161.33)	Measured Groundwater Elevation in Feet (November 9, 1998)
←	General Direction of Groundwater Flow
NM	Water Level Not Measured
(<188.7)	Well was Dry, Elevation is Elevation of Bottom of Well
*	Groundwater Level in These Wells Calculated Using Air Pressure Measurements at the Wellheads



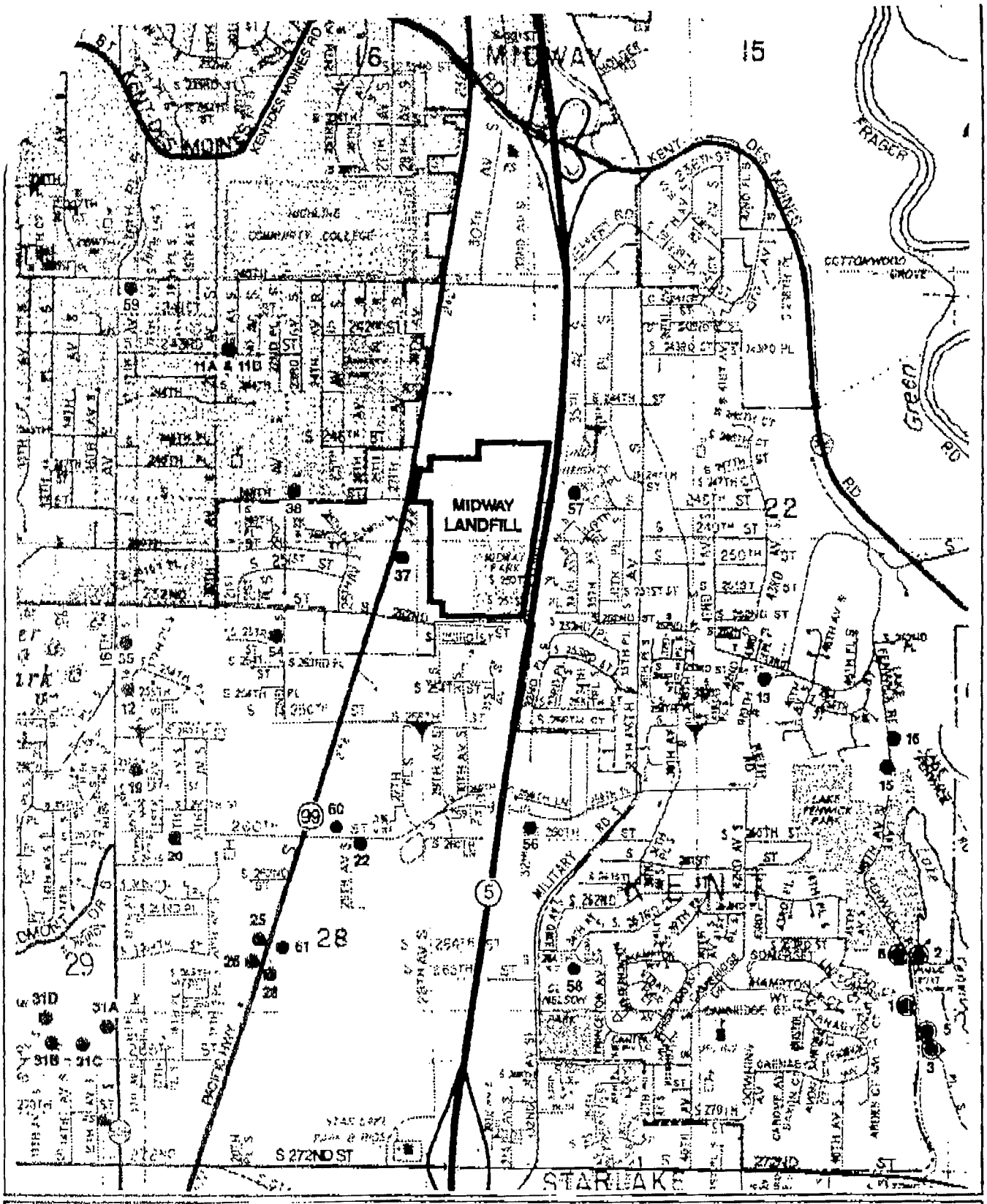
Landfill Gas System Gas Contours

PRESSURE GRADIENTS 1QT, 1997



SCALE 1:1000

The heavy contour line depicts the lateral extent of the vacuum in the Upper Gravel Aquifer beneath the landfill, which results from operation of the gas extraction system.



SCALE IN FEET

0 1,000 2,000

N

Wells Presently Being Used for Human Drinking Supplies

Wells Not Currently in Use for Human Drinking Supplies

Figure 6-1.
Private and Public Wells Within One Mile of the Midway Landfill