

YEAR

LOCATION : Wat Sai Yai
 Tambon : Sai Noi
 Amphoe : Sai Noi
 Changwat : Nonthaburi
 UTM Grid : 419454

SCREEN DEPTH

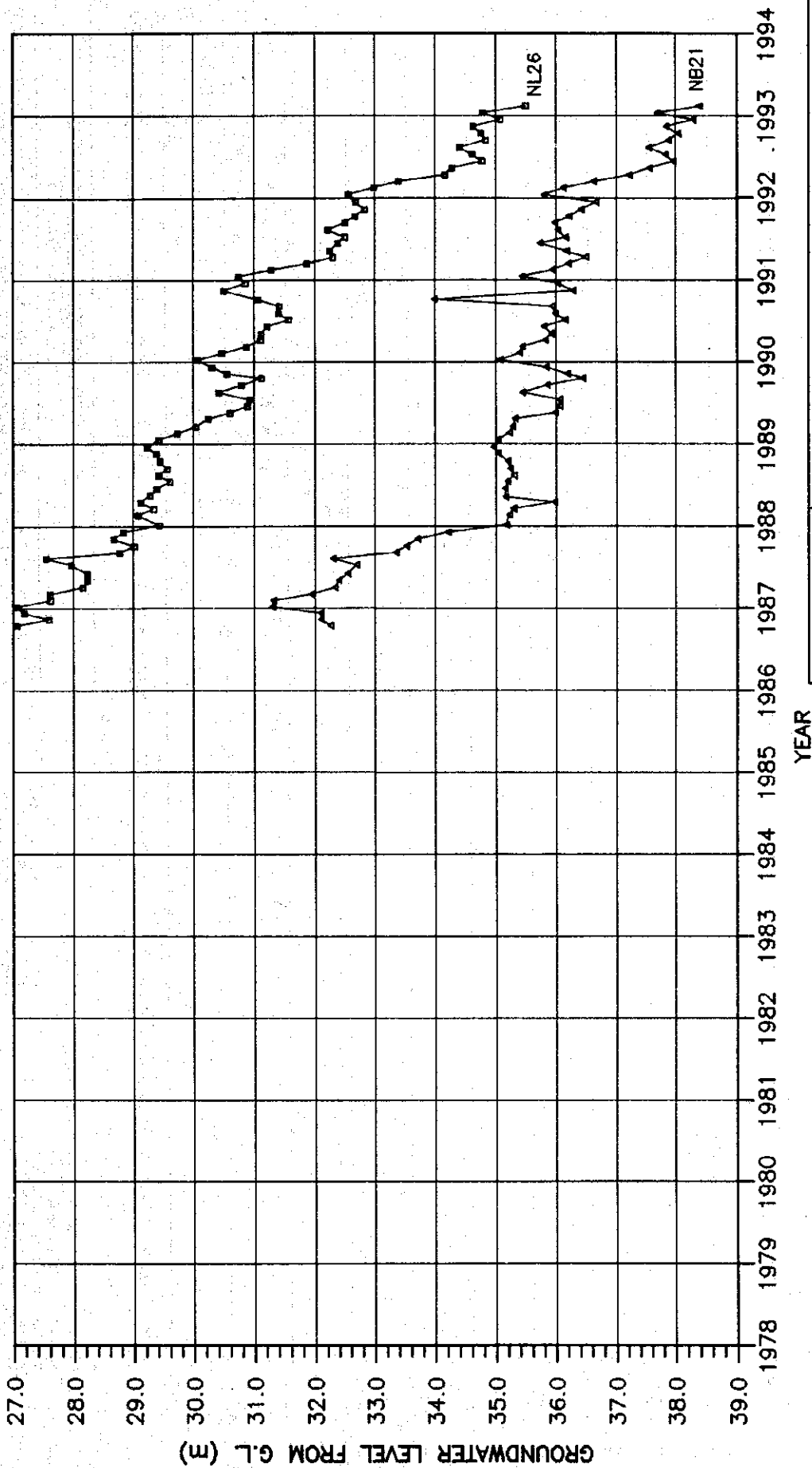
PD58 : 94.0-100.0m
 NL72 : 149.0-155.0m
 NB19 : 204.0-210.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 51

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

KOKUSAI KOGYO CO., LTD.



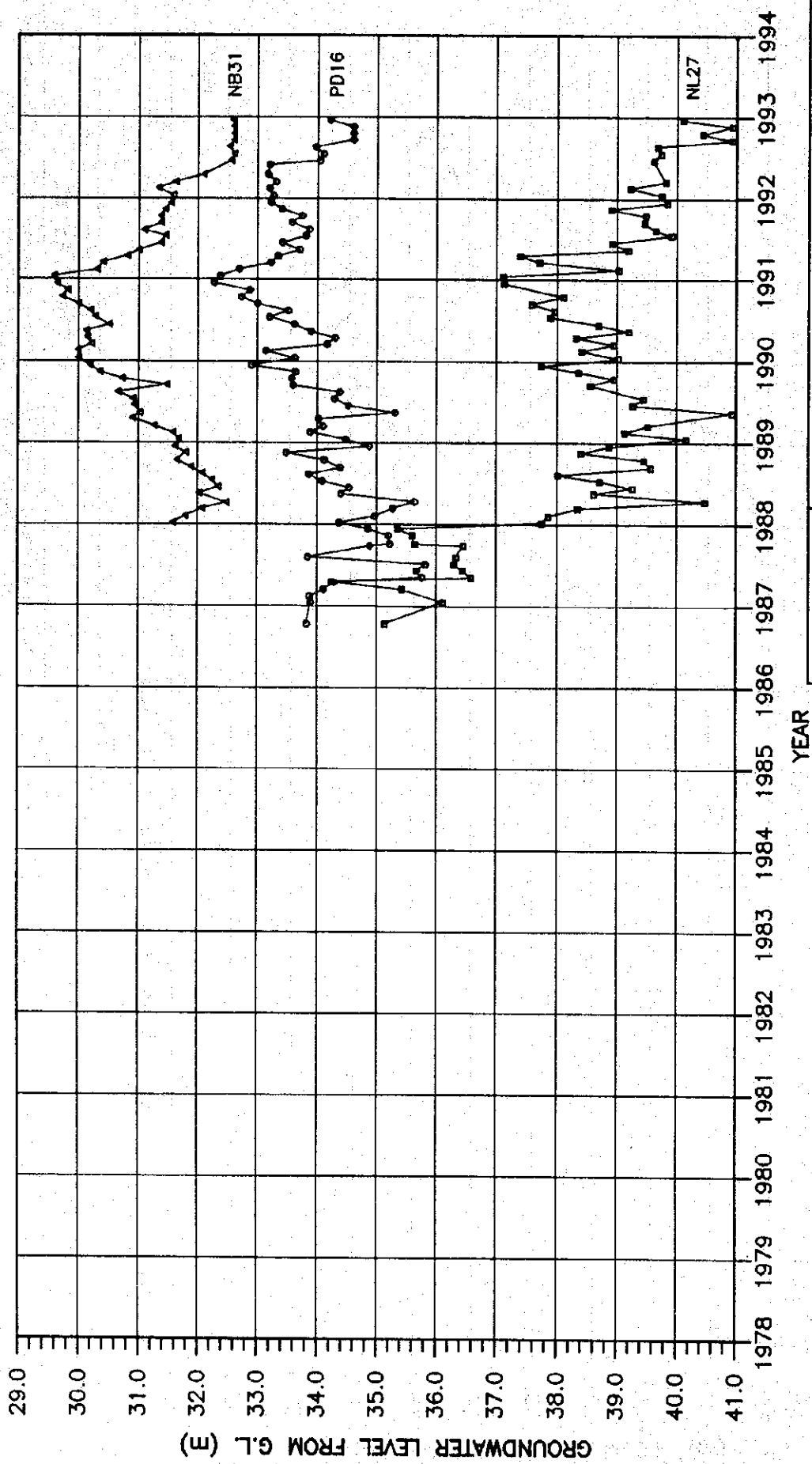
GROUNDWATER LEVEL CHANGES
AT STATION No. 52

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Prayun Thammaram
 Tambon : Khu Khut
 Amphoe : Lam Luk Ka
 Changwat : Pathum Thani
 UTM Grid : 743438

SCREEN DEPTH : NL26 : 145.0-151.0m
 NB21 : 187.0-193.0m



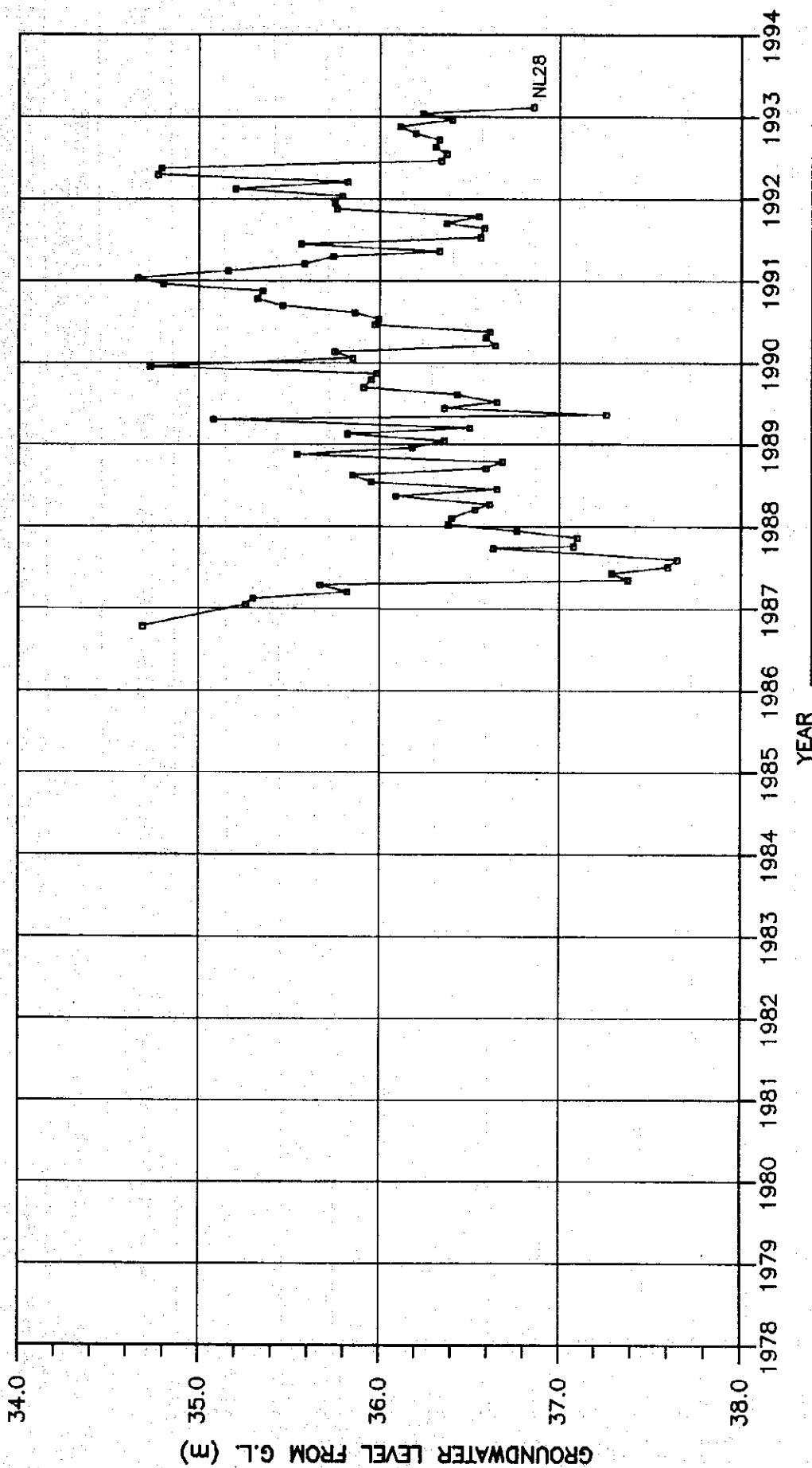
**GROUNDWATER LEVEL CHANGES
AT STATION No. 53**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Pig Quarantine Station
 Tambon : Samrong Tai
 Amphoe : Phra Pradaeng
 Changwat : Samut Prakan
 UTM Grid : 704091

SCREEN DEPTH
 PD16 : 92.0-98.0m
 NL27 : 138.0-144.0m
 NB31 : 200.0-206.0m



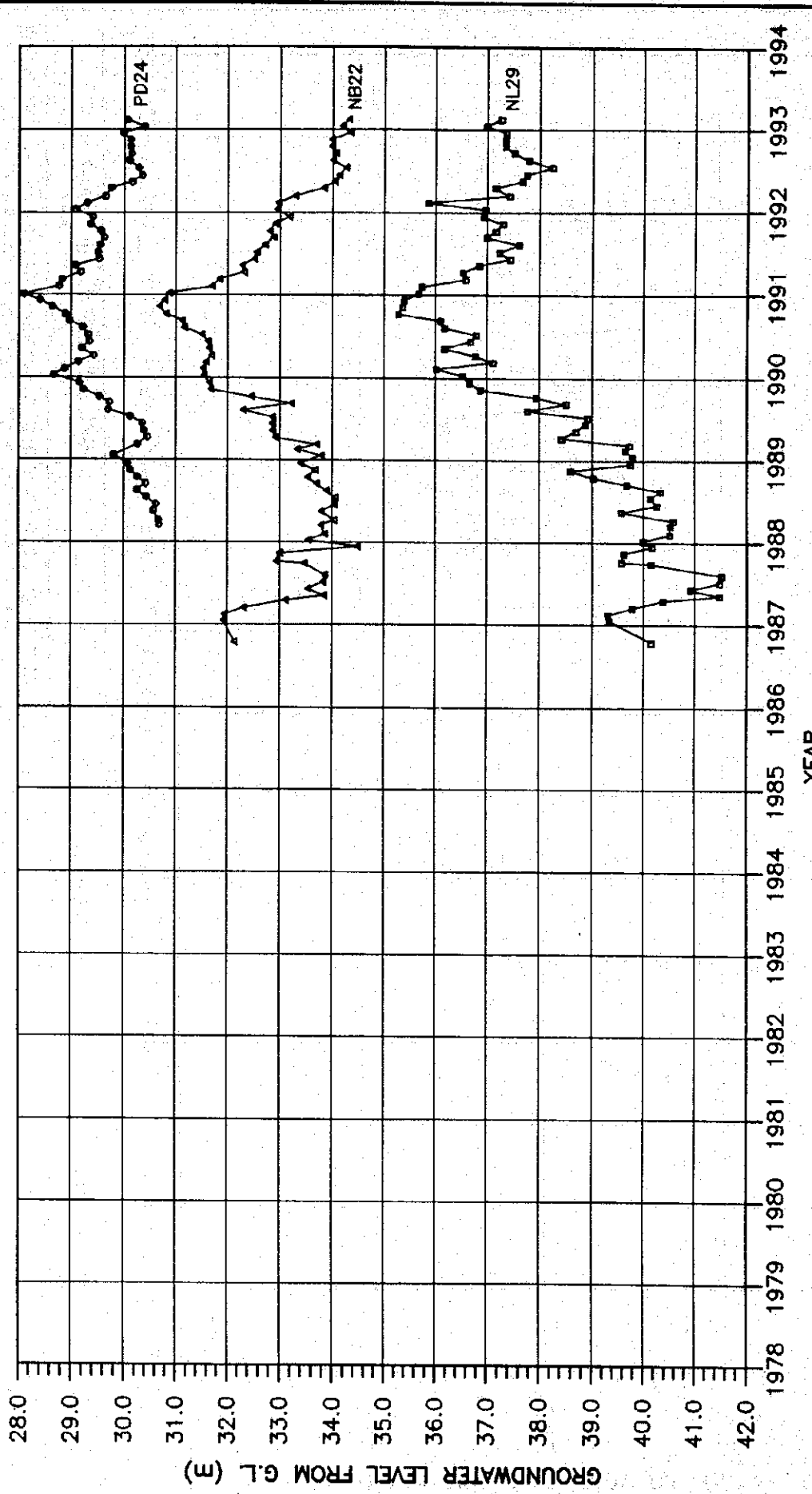
LOCATION : Wat Mahawong
 Tambon : Samrong Tai
 Amphoe : Phra Pradaeng
 Changwat : Samut Sakhon
 UTM Grid : 714094

SCREEN DEPTH
 NL28 : 134.0-140.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 54

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



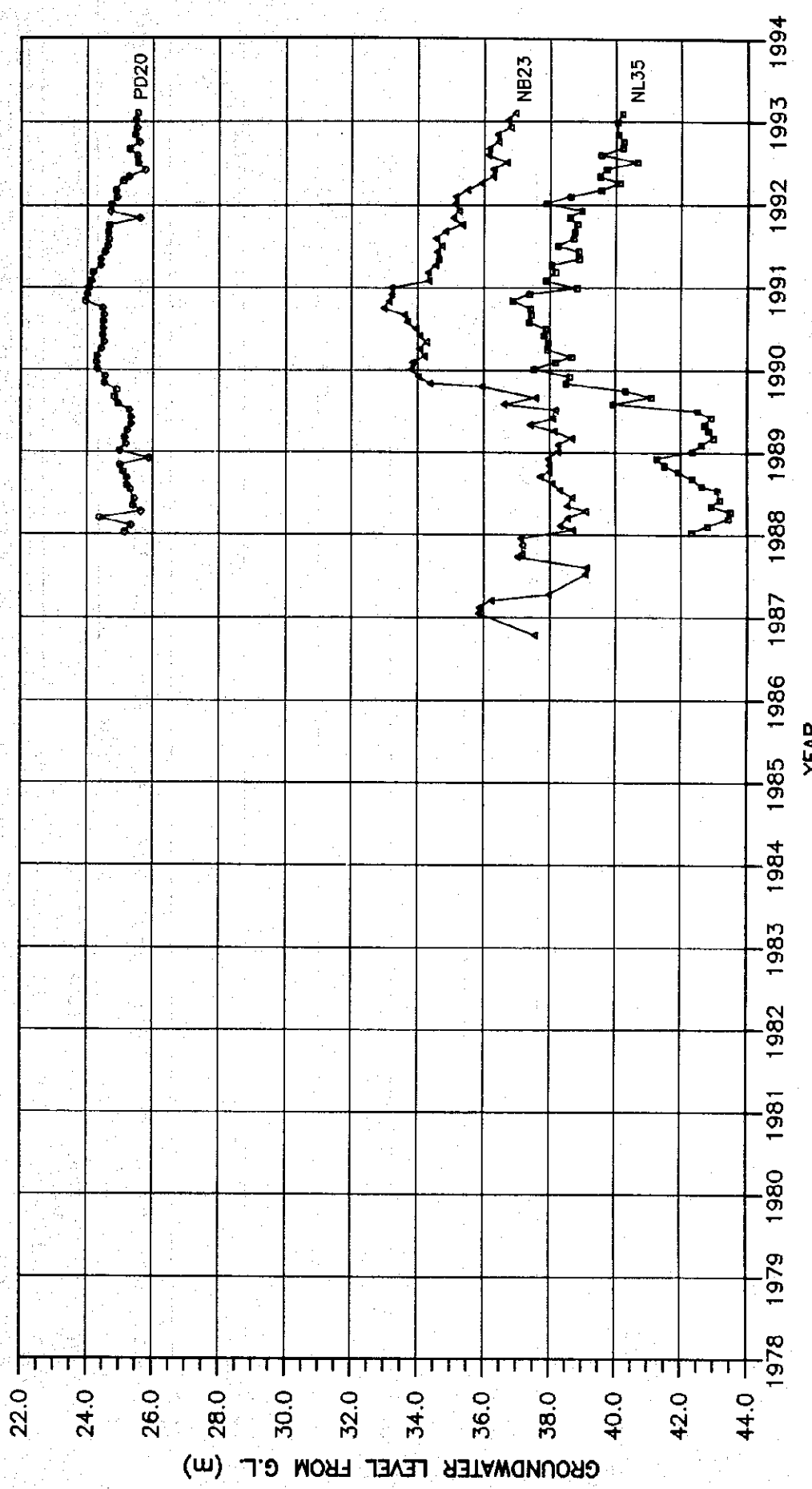
**GROUNDWATER LEVEL CHANGES
AT STATION No. 55**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Flood Control Station
 Tambon : Phra Khanong
 Amphoe : Bangkok
 Changwat : Bangkok
 UTM Grid : 728158

SCREEN DEPTH
 PD24 : 103.0-109.0m
 NL29 : 155.0-161.0m
 NB22 : 215.0-221.0m



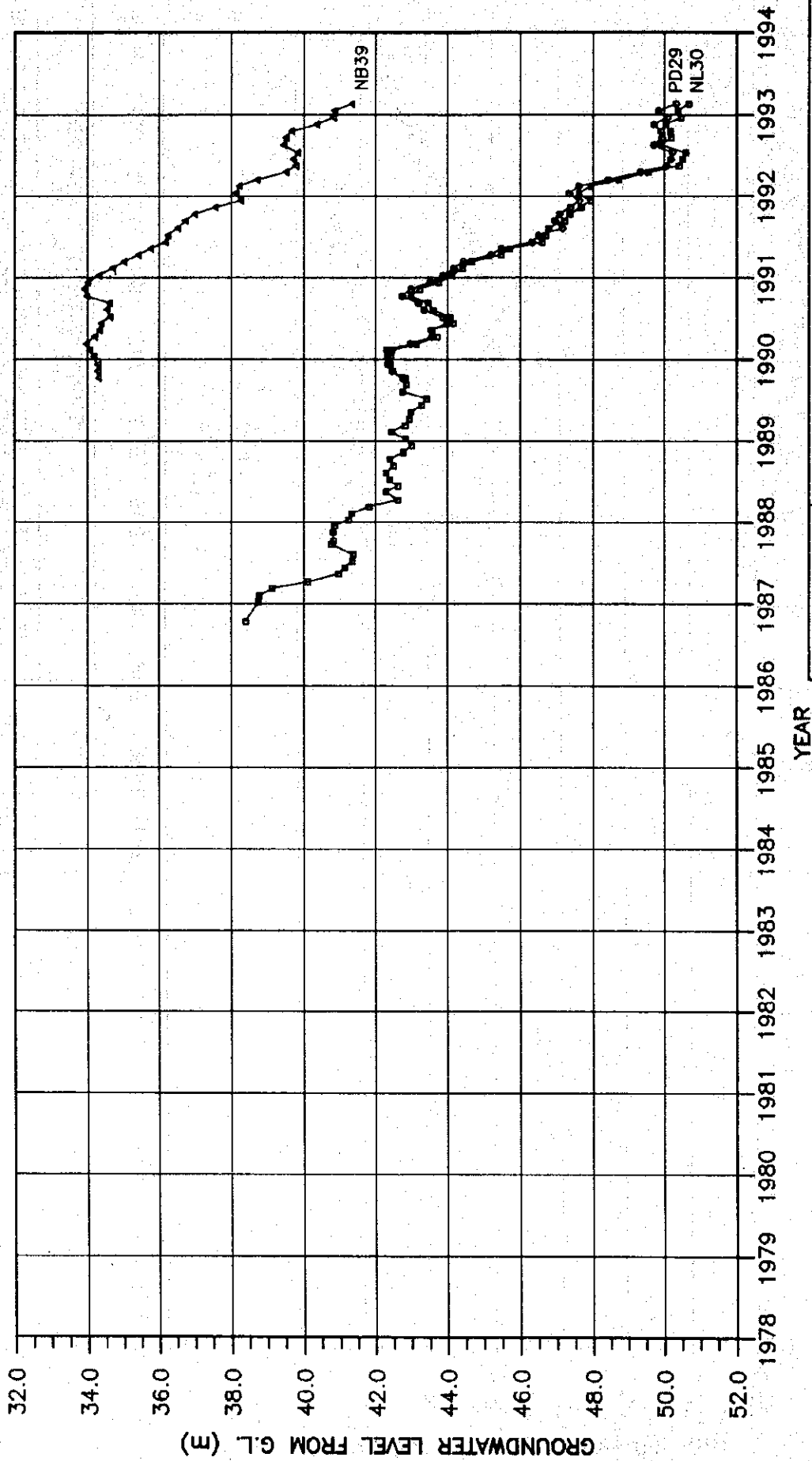
GROUNDWATER LEVEL CHANGES AT STATION No. 56

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDIENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Samakkhi
 Tambon : Bang Kapi
 Amphoe : Bangkok
 Changwat : Bangkok
 UTM Grid : 733240

SCREEN DEPTH
 PD20 : 90.0 - 96.0m
 NL35 : 159.0 - 165.0m
 NB23 : 212.0 - 218.0m



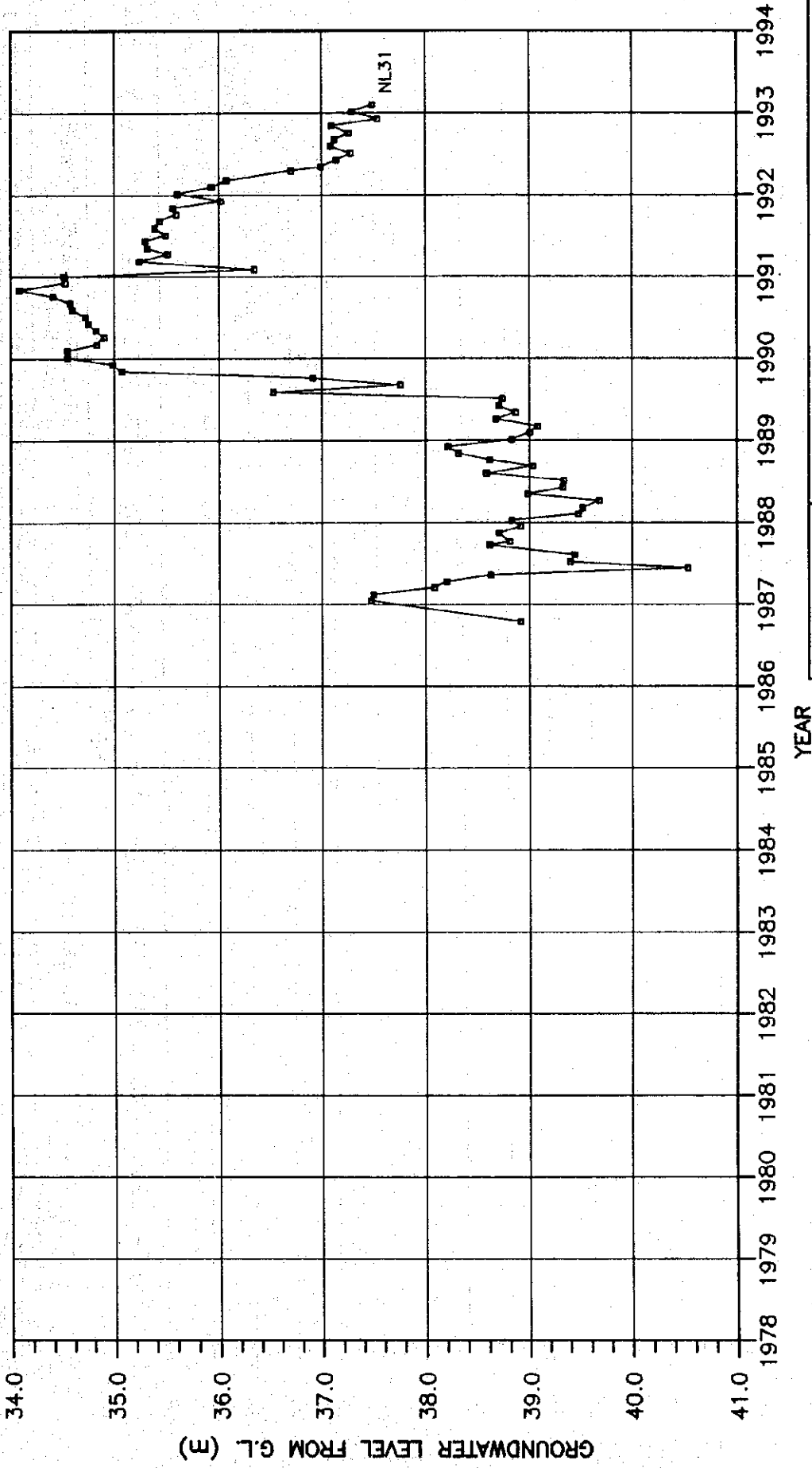
**GROUNDWATER LEVEL CHANGES
AT STATION No. 57**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat King Kaeo
 Tambon : Racha Thewa
 Amphoe : Bang Phli
 Changwat : Samut Prakan
 UTM Grid : 861122

SCREEN DEPTH
 PD29 : 104.0-110.0m
 NL30 : 143.0-149.0m
 NB39 : 189.0-195.0m



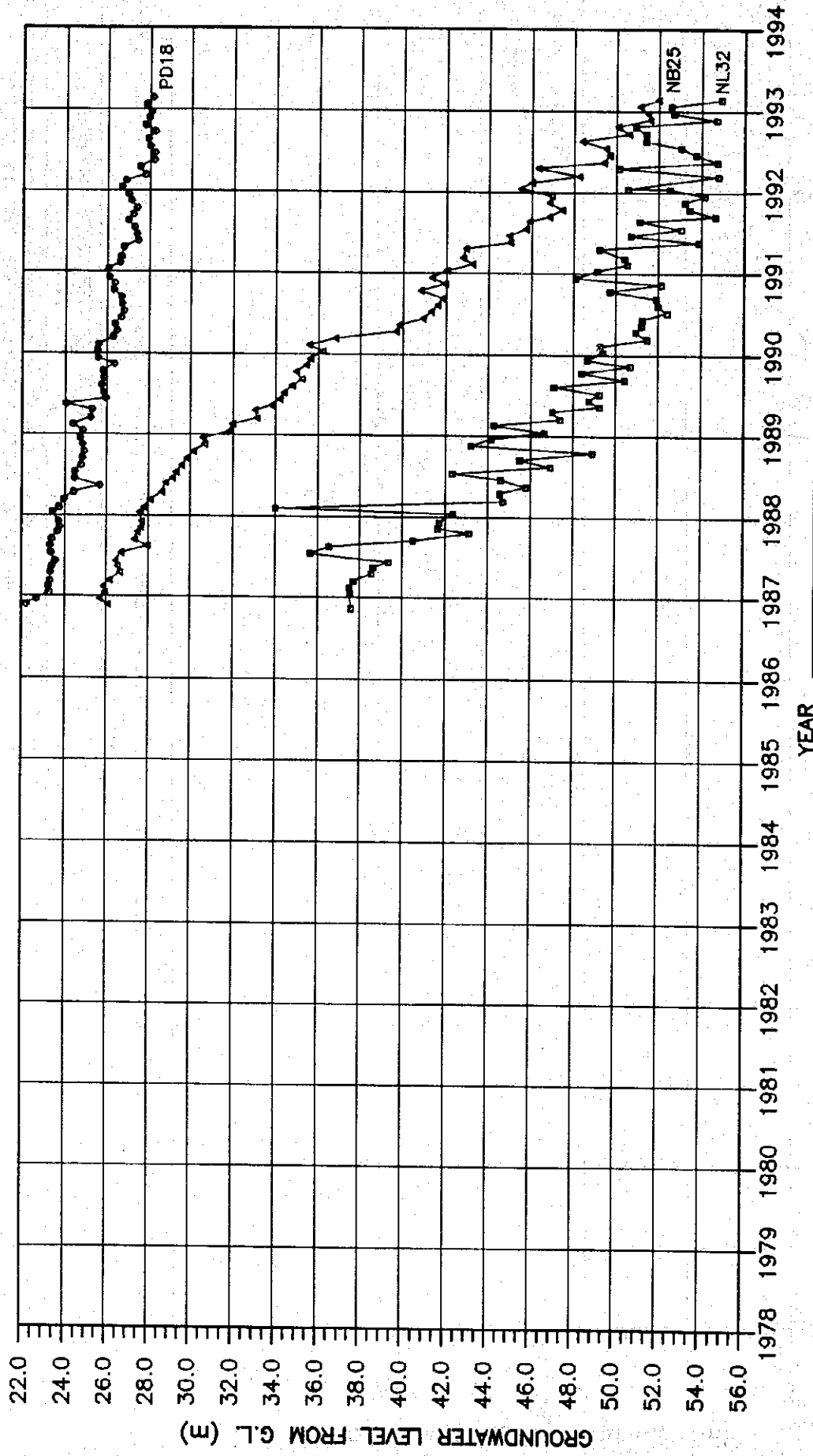
GROUNDWATER LEVEL CHANGES AT STATION No. 58

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Sirikamalawat
 Tambon : Lat Phrao
 Amphoe : Bang Kapi
 Changwat : Bangkok
 UTM Grid : 722289

SCREEN DEPTH
 NL31 : 160.0-166.0 m



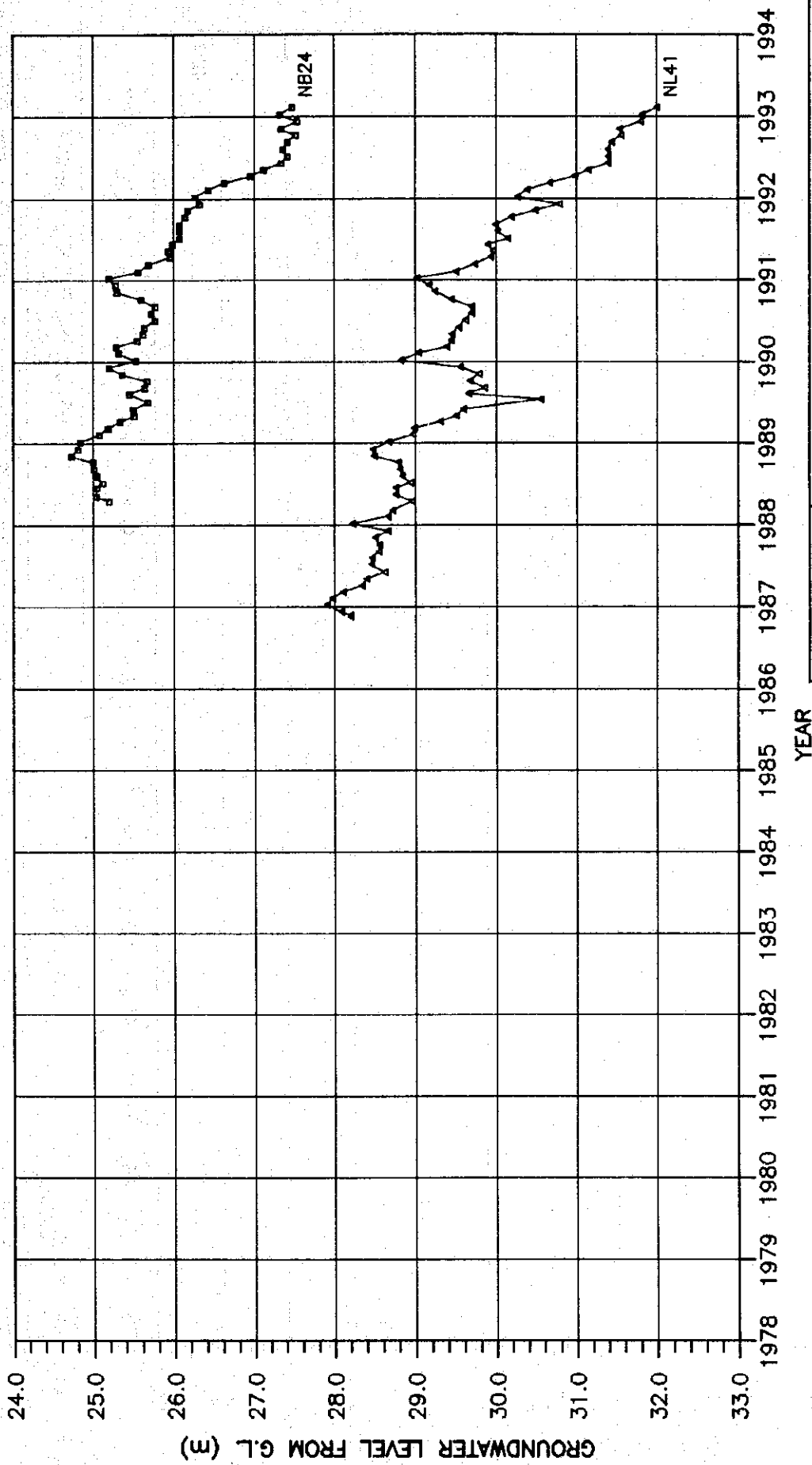
**GROUNDWATER LEVEL CHANGES
AT STATION No. 60**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Nang Sao
 Tambon : Tha Mai
 Amphoe : Krathum Baen
 Changwat : Samut Prakan
 UTM Grid : 375110

SCREEN DEPTH
 PD18 : 83.0 - 89.0m
 NL32 : 147.0 - 153.0m
 NB25 : 210.0 - 216.0m



**GROUNDWATER LEVEL CHANGES
AT STATION No. 59**

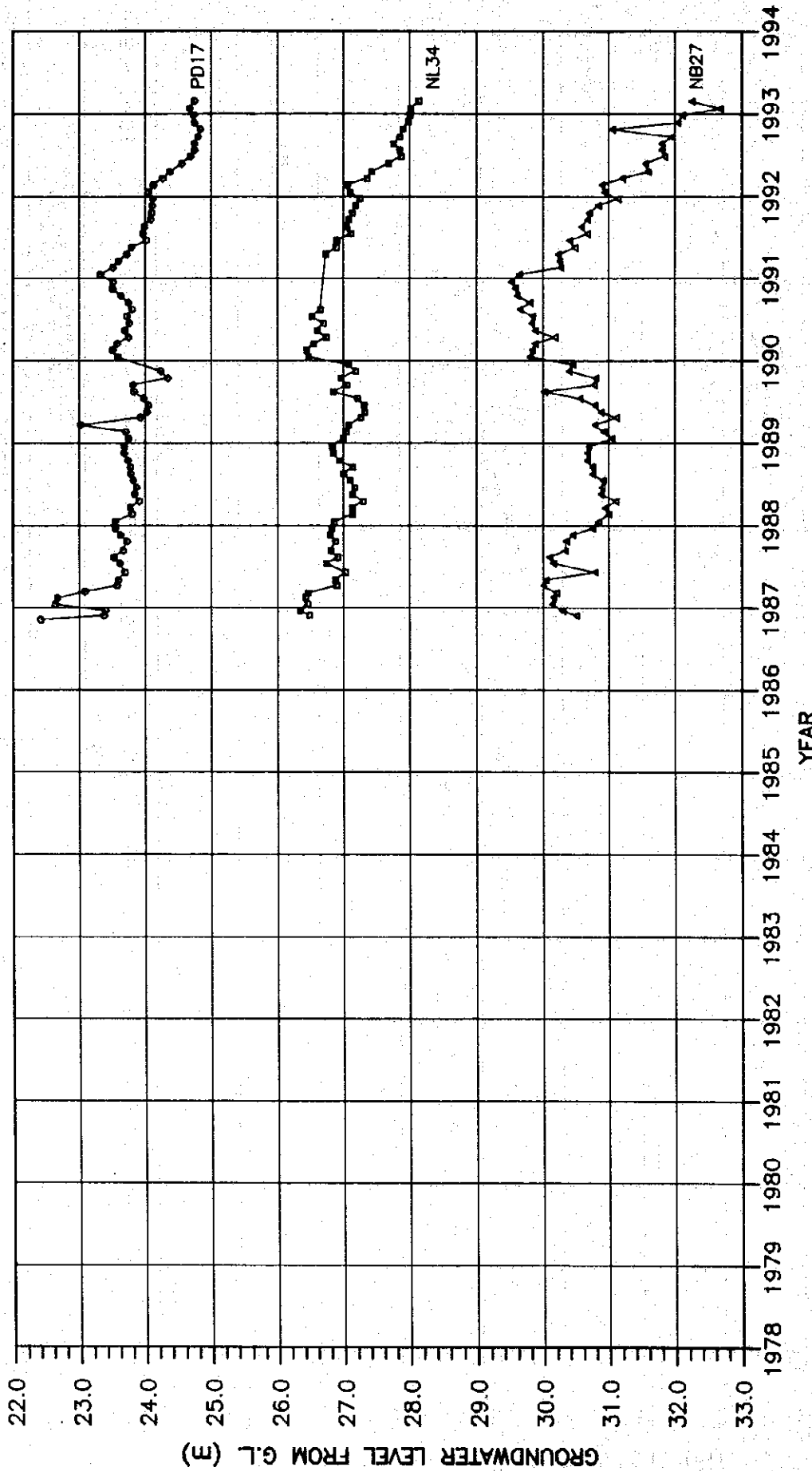
**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Khlong Klua School
 Tambon : Pak Kret
 Amphos : Pak Kret
 Changwat : Nonthaburi
 UTM Grid : 668368

SCREEN DEPTH
 NL41 : 144.0-150.0m
 NB24 : 196.0-202.0m

YEAR



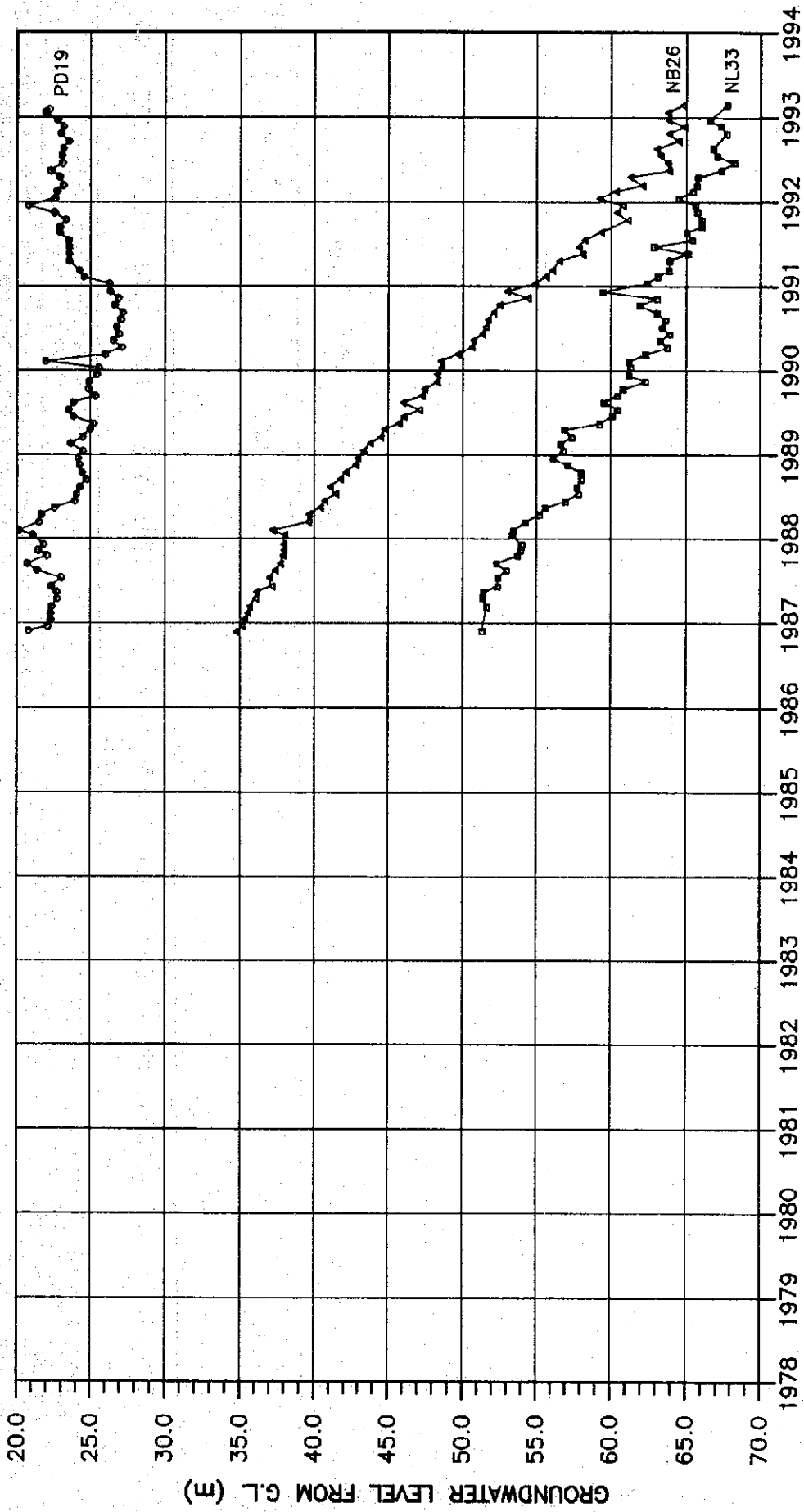
**GROUNDWATER LEVEL CHANGES
AT STATION No. 61**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : DMR : Thung Phaya Thai
 Tambon : Phaya Thai
 Amphoe : Bangkok
 Changwat : Bangkok
 UTM Grid : 654218

SCREEN DEPTH
 PD17 : 84.0-90.0m
 NL34 : 131.0-137.0m
 NB27 : 190.0-196.0m



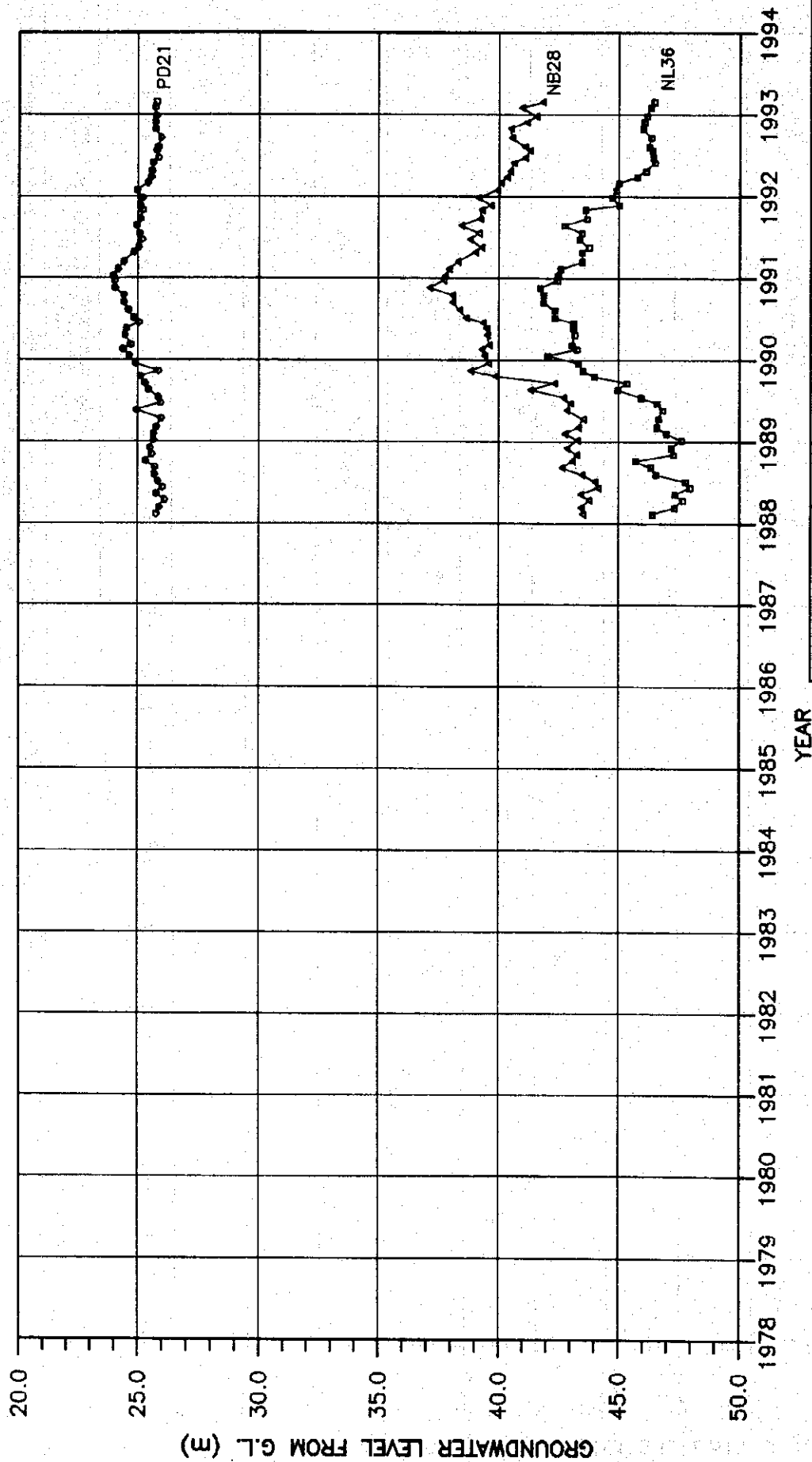
**GROUNDWATER LEVEL CHANGES
AT STATION No. 62**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Provincial Hall
 Tambon : Mahachulalongkornrajavidyalaya
 Amphoe : Muang Samut Prakan
 Changwat : Samut Prakan
 UTM Grid : 383978

SCREEN DEPTH
 PD19 : 93.0 - 99.0m
 NL33 : 160.0 - 166.0m
 NB26 : 202.0 - 208.0m



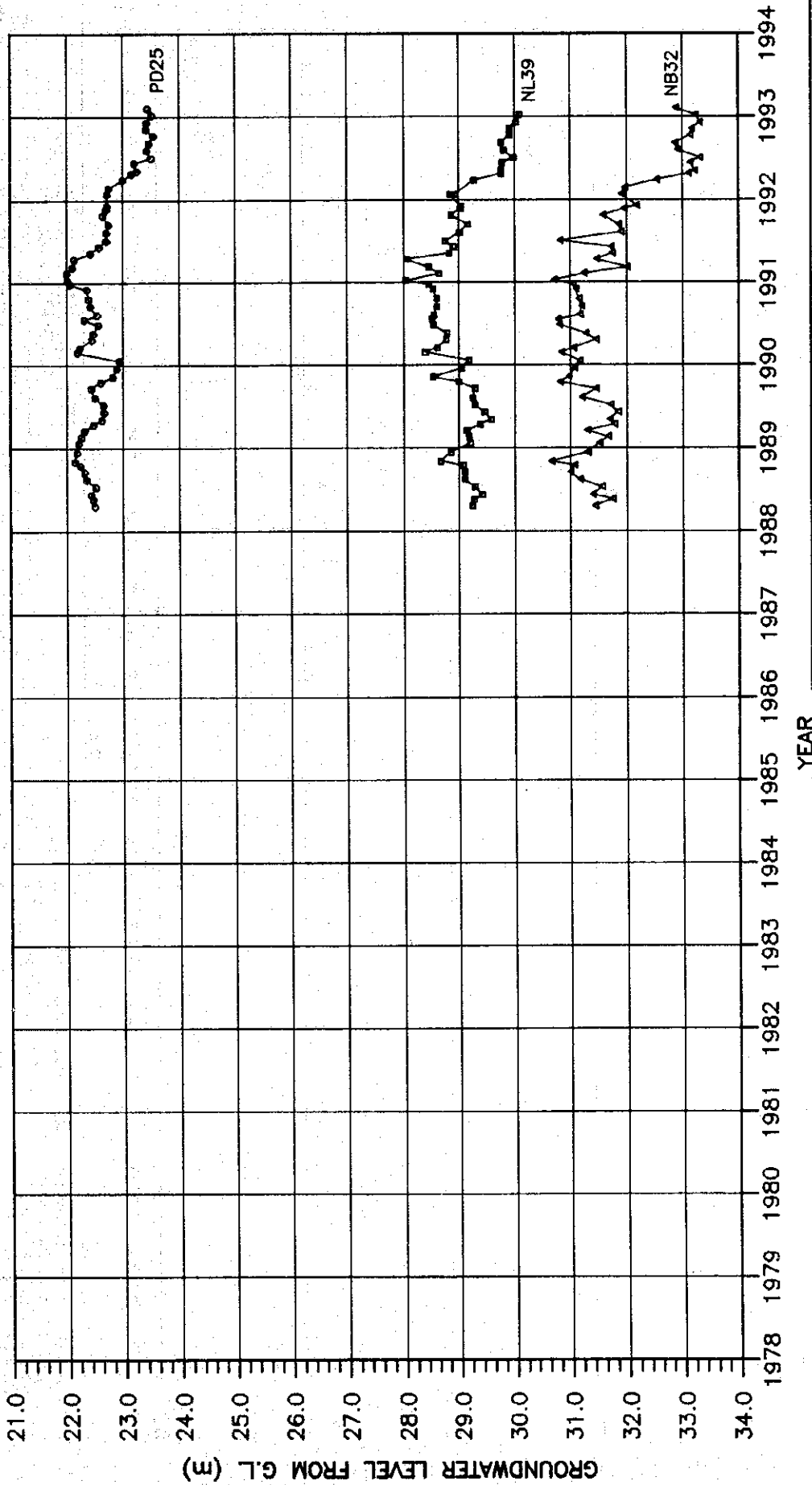
**GROUNDWATER LEVEL CHANGES
AT STATION No. 63**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : National Housing Authority
 Tambon : Khlong Chan
 Amphoe : Bang Kapi
 Changwat : Bangkok
 UTM Grid : 788227

SCREEN DEPTH
 PD21 : 103.0-109.0 m
 NL36 : 157.0-163.0 m
 NB28 : 211.0-217.0 m



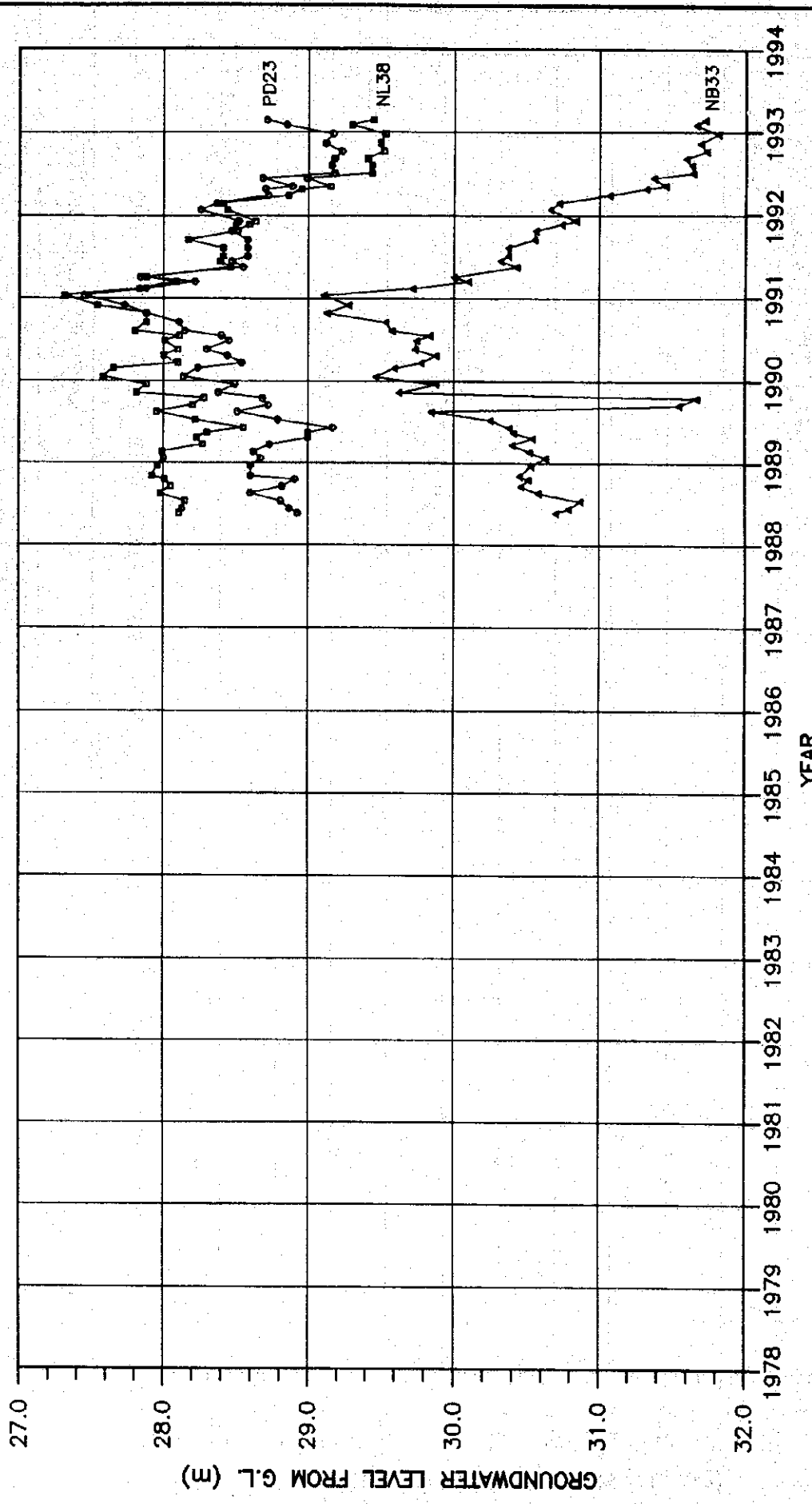
**GROUNDWATER LEVEL CHANGES
AT STATION No. 64**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Kaeo Fa Chula Mani
 Tambon : Thanon Nakhon Chaisi
 Amphoe : Dusit
 Changwat : Bangkok
 UTM Grid : 645257

SCREEN DEPTH
 PD25 : 94.0-100.0m
 NL39 : 168.0-174.0m
 NB32 : 192.0-198.0m



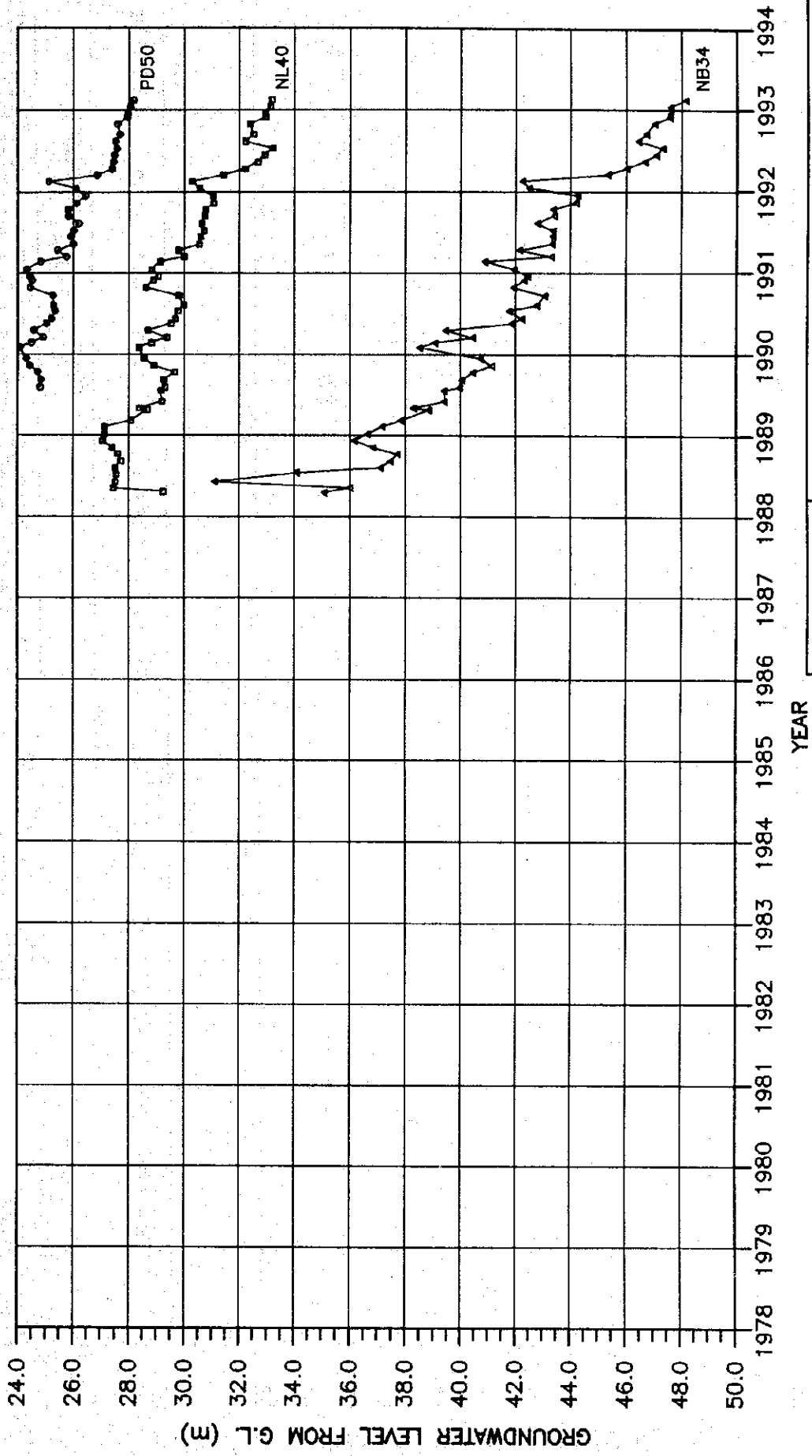
**GROUNDWATER LEVEL CHANGES
AT STATION No. 65**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Mahamek Electrical Substation
 Tambon : Chong Nansi
 Amphoe : Yan Nawa
 Changwat : Bangkok
 UTM Grid : 659148

SCREEN DEPTH
 PD23 : 114.0-120.0m
 NL38 : 150.0-156.0m
 NB33 : 211.0-217.0m



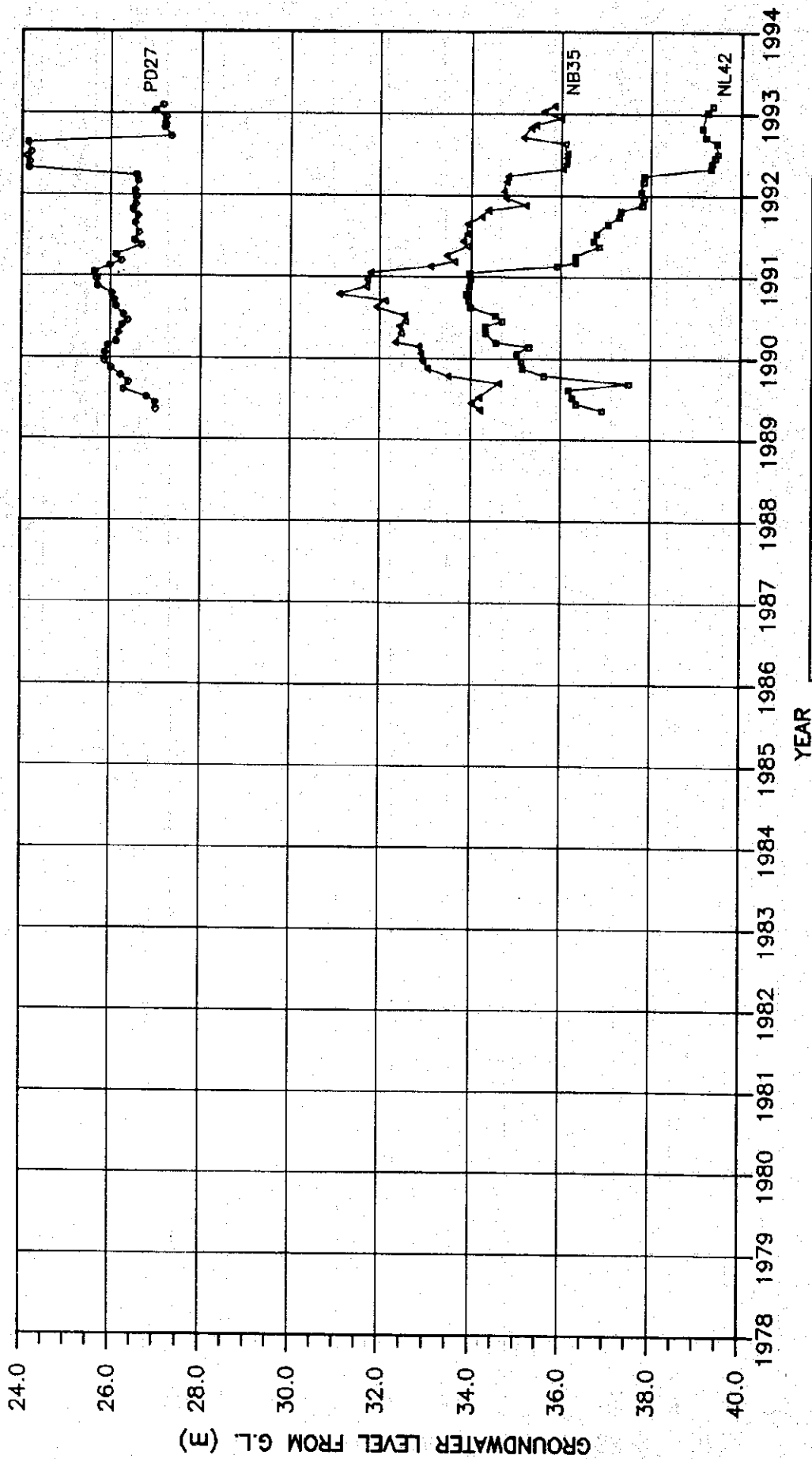
**GROUNDWATER LEVEL CHANGES
AT STATION No. 66**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Bunkhum Rat Bamrung
 Tambon : Khlong Nung
 Amphoe : Khlong Luang
 Changwat : Pathum Thani
 UTM Grid : 742491

SchoreEN DEPTH
 PD50 : 92.0 - 98.0m
 NL40 : 133.0 - 139.0m
 NB34 : 183.0 - 189.0m



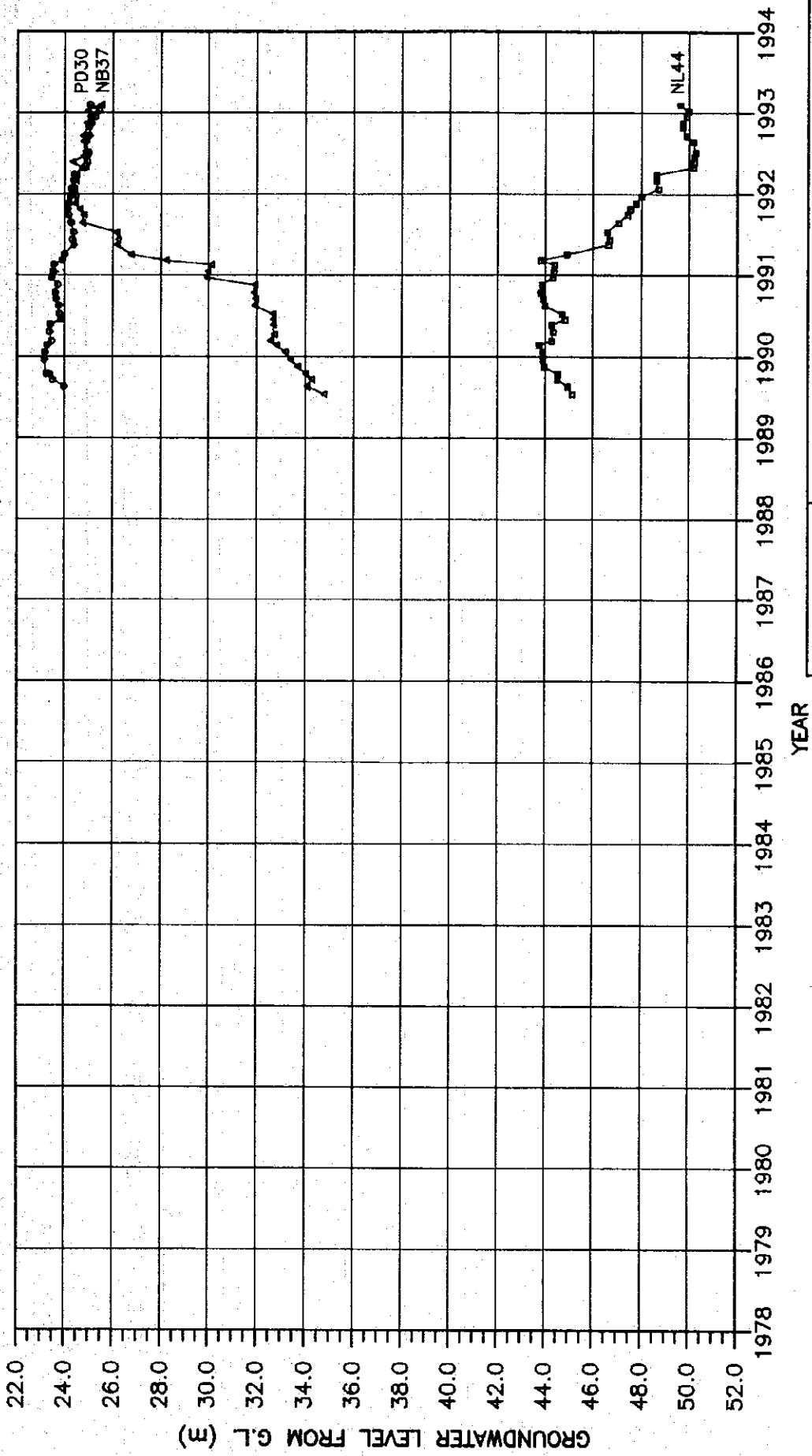
**GROUNDWATER LEVEL CHANGES
AT STATION No. 67**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Wachiratham Sathit
 Tambon : Bang Chak
 Amphoe : Phra Khanong
 Changwat : Bangkok
 UTM Grid : 772139

SCREEN DEPTH
 PD27 : 78.0 - 84.0m
 NL42 : 172.0 - 178.0m
 NB35 : 208.0 - 214.0m



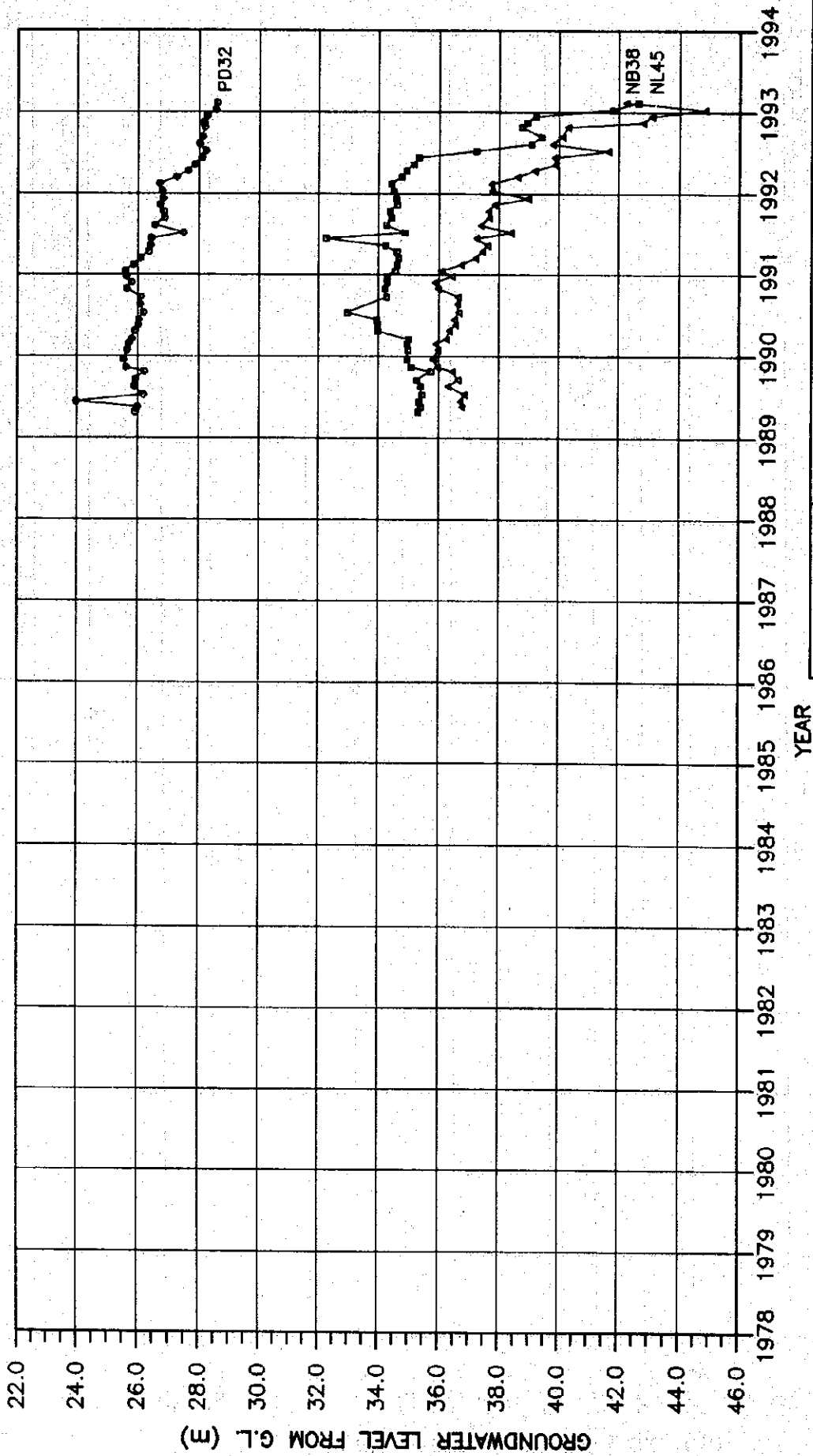
**GROUNDWATER LEVEL CHANGES
AT STATION No. 68**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Thung Lan Na
 Tambon : Phra Khanong
 Amphoe : Bangkok
 Changwat : Bangkok
 UTM Grid : 822126

SCREEN DEPTH
 PD30 : 77.0 - 83.0m
 NL44 : 126.0 - 132.0m
 NB37 : 209.0 - 215.0m



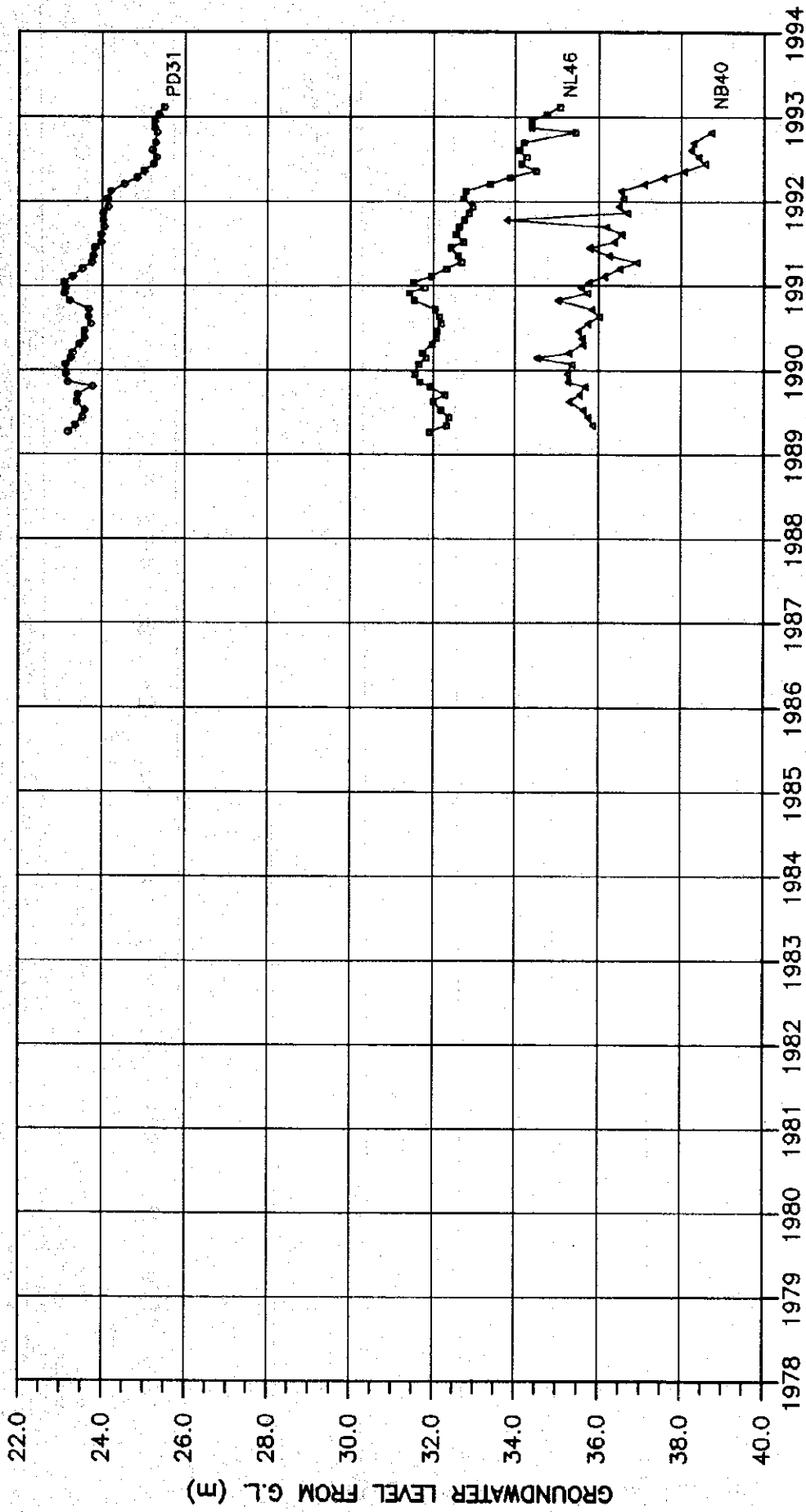
**GROUNDWATER LEVEL CHANGES
AT STATION No. 69**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Ko Suwannaram
 Tambon : Khlong Thanon
 Amphoe : Bang Khen
 Changwat : Bangkok
 UTM Grid : 768379

SCREEN DEPTH
 PD32 : 102.0-108.0m
 NL45 : 163.0-169.0m
 NB38 : 189.0-195.0m



**GROUNDWATER LEVEL CHANGES
AT STATION No. 70**

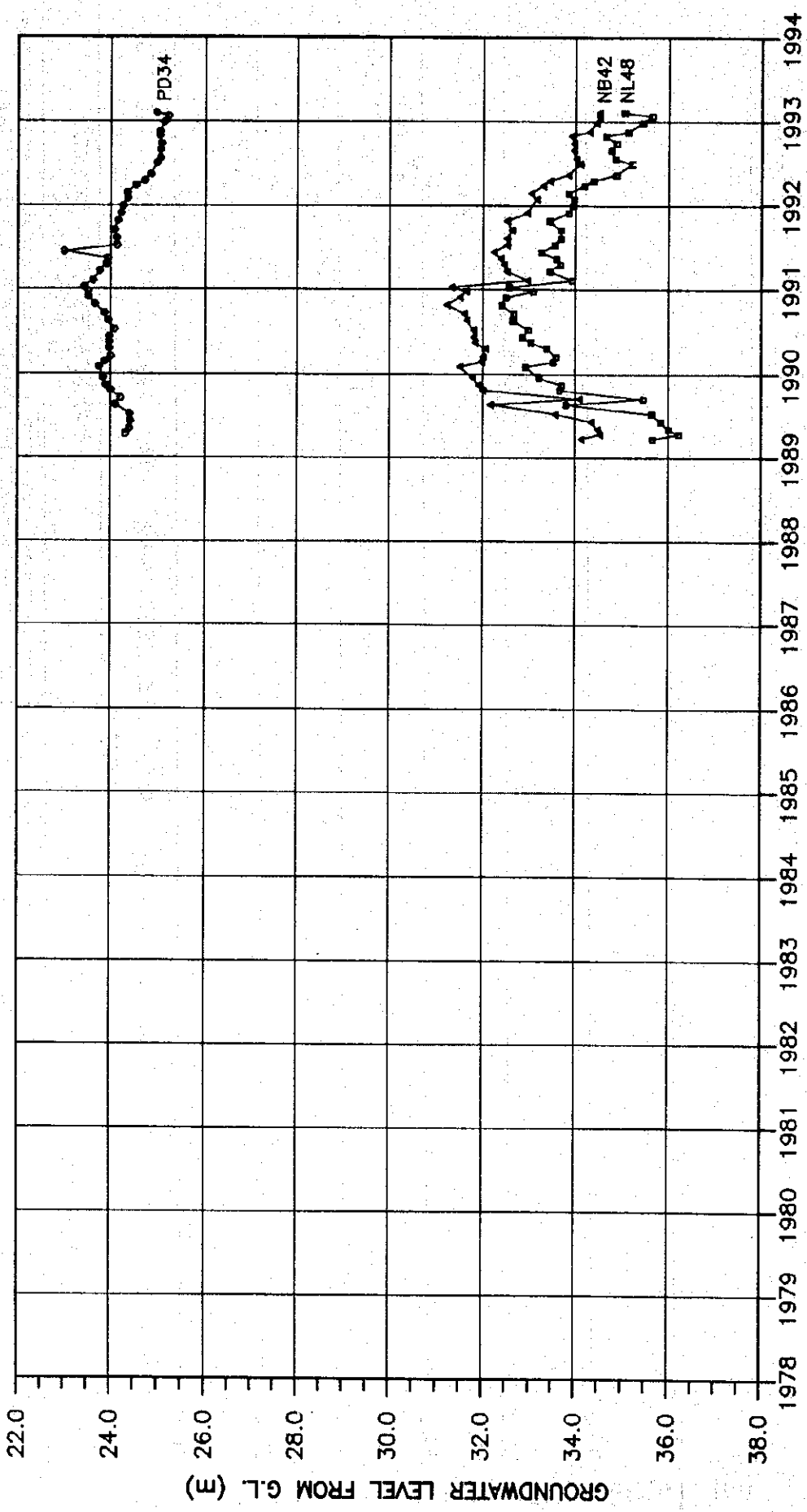
**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

YEAR

SCREEN DEPTH
 PD31 : 101.0-107.0m
 NL46 : 150.0-156.0m
 NB40 : 190.0-196.0m

LOCATION : Wat Don Muang
 Tambon : Talat Bang Khen
 Amphoe : Bang Khen
 Changwat : Bangkok
 UTM Grid : 733394



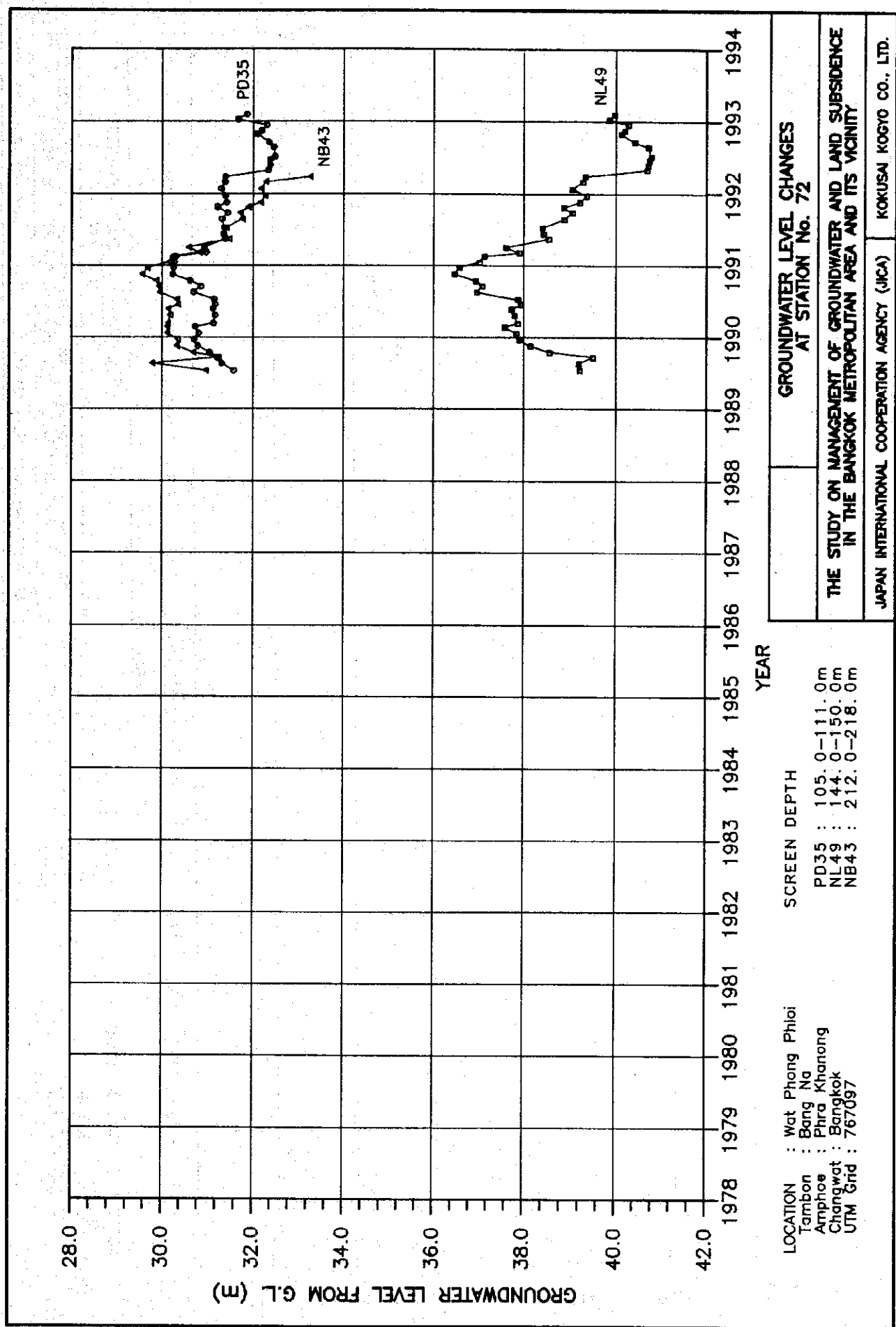
GROUNDWATER LEVEL CHANGES AT STATION No. 71

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Chatuchak Park
 Tambon : Lat Phrao
 Amphoe : Bang Khen
 Changwat : Bangkok
 UTM Grid : 686271

SCREEN DEPTH
 PD34 : 113.0-119.0m
 NL48 : 160.0-166.0m
 NB42 : 214.0-220.0m



YEAR

LOCATION : Wat Phong Phloi
 Tambon : Bang Na
 Amphoe : Phra Khanong
 Changwat : Bangkok
 UTM Grid : 767097

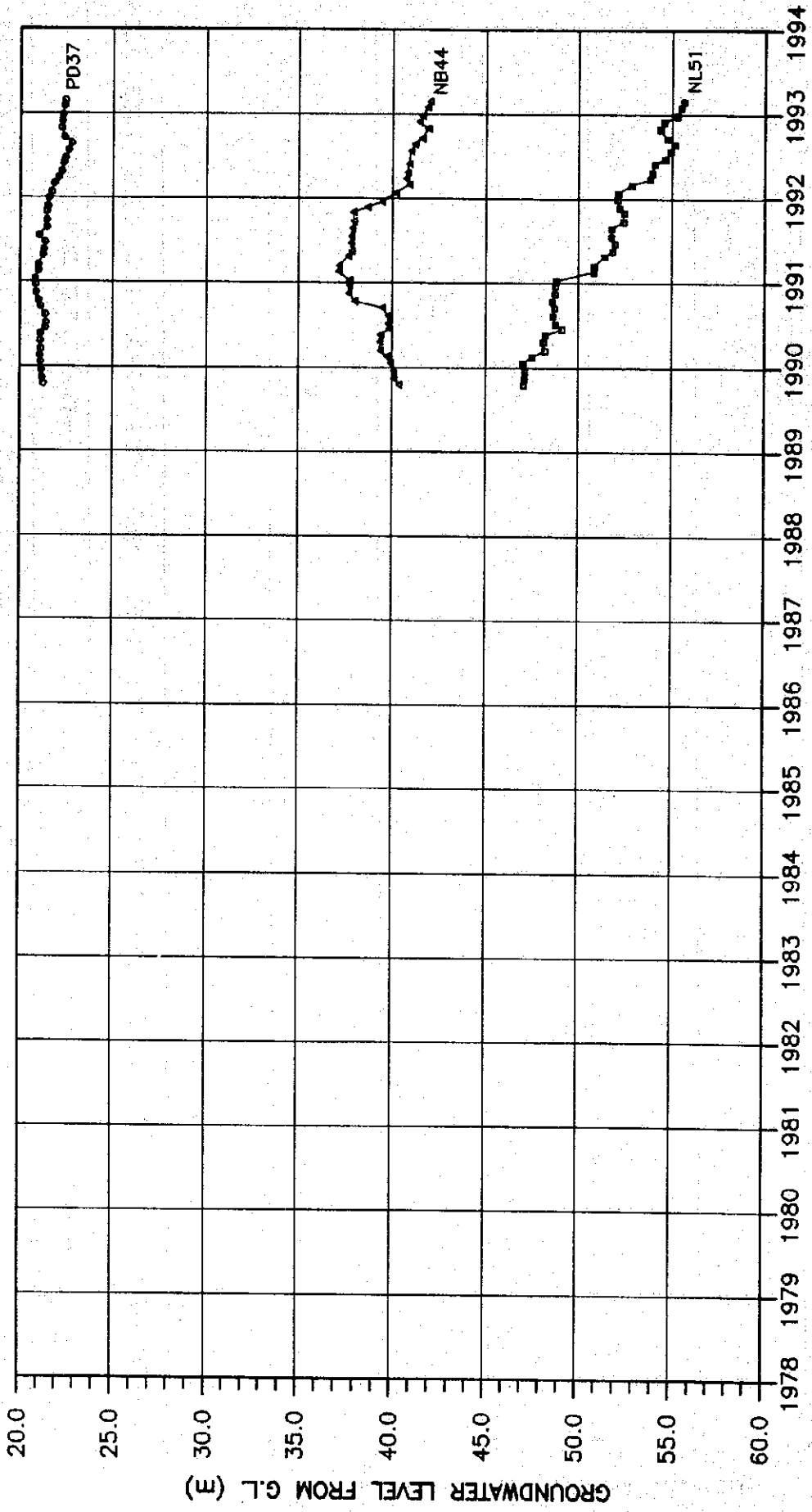
SCREEN DEPTH

PD35 : 105.0-111.0m
 NL49 : 144.0-150.0m
 NB43 : 212.0-218.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 72

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



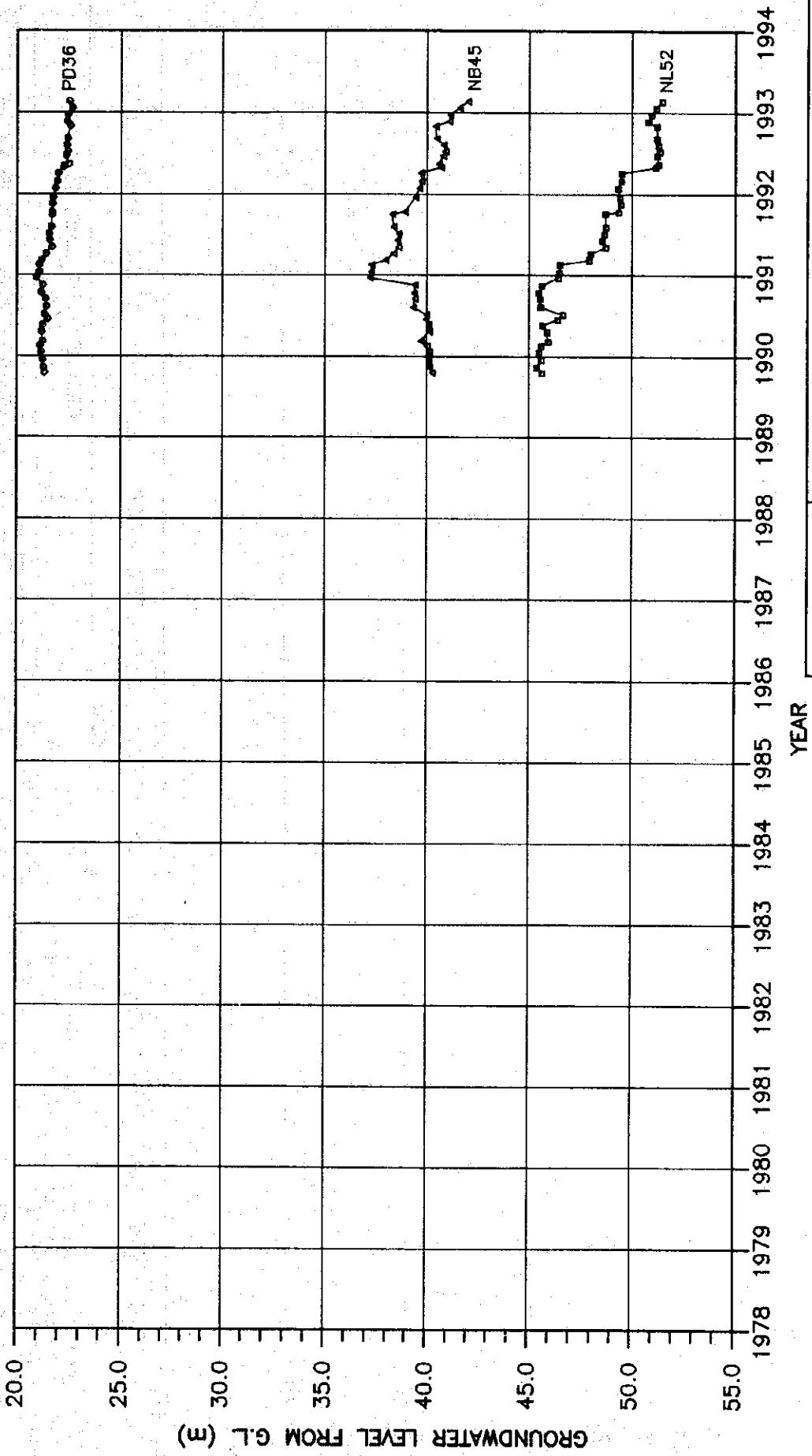
LOCATION : Wat Bamphen Nua
 Tambon : Min Buri
 Amphoe : Bangkok
 Changwat : Bangkok
 UTM Grid : 852262

SCREEN DEPTH
 PD37 : 85.0 - 91.0m
 NL51 : 149.0 - 155.0m
 NB44 : 217.0 - 223.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 73

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



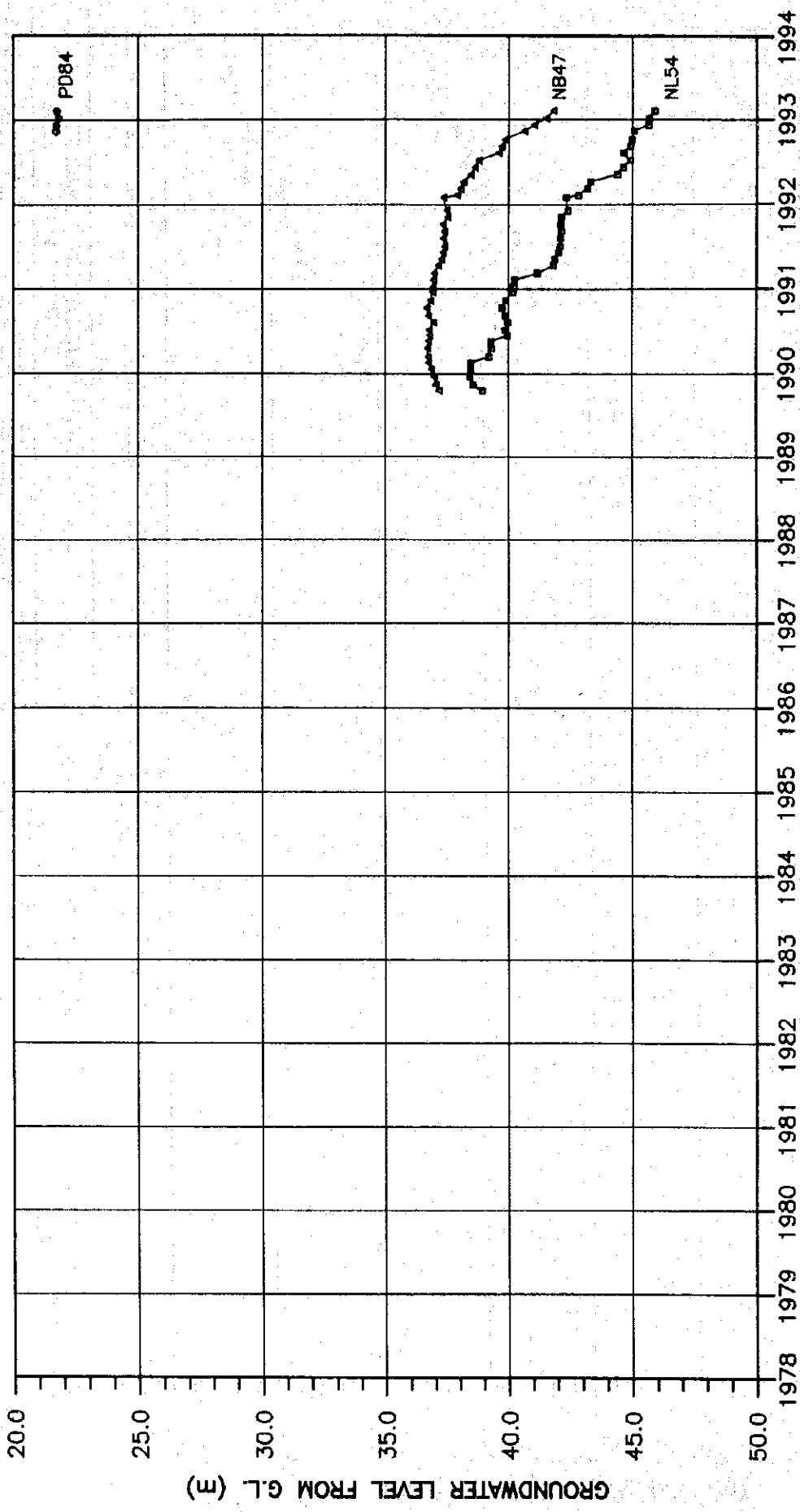
**GROUNDWATER LEVEL CHANGES
AT STATION No. 74**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Lat Bua Khao
 Tambon : Prawet
 Amphoe : Phra Khanong
 Changwat : Bangkok
 UTM Gnd : 838212

SCREEN DEPTH
 PD36 : 90.0 - 96.0m
 NL52 : 151.0 - 157.0m
 NB45 : 195.0 - 201.0m



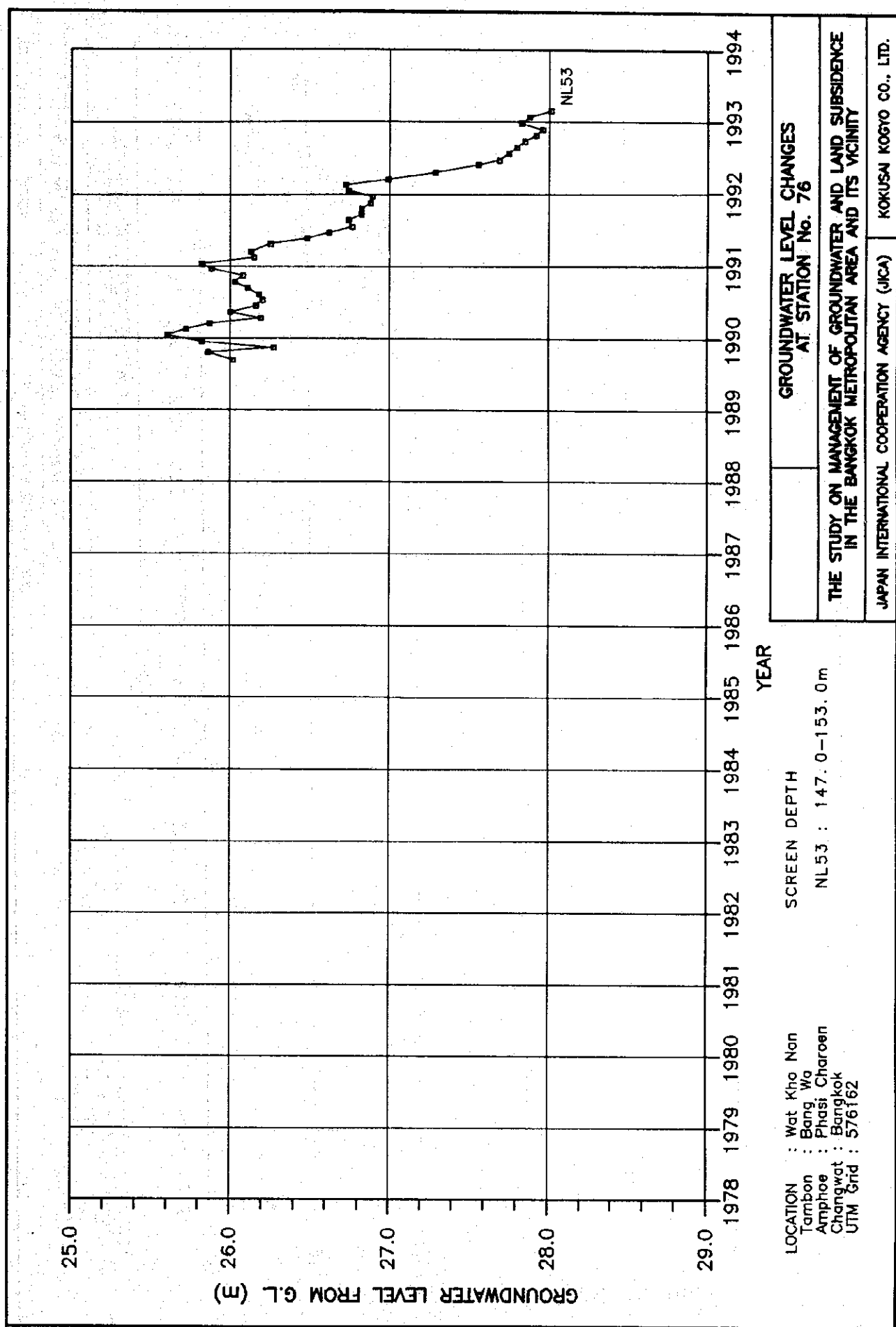
SCREEN DEPTH
 PD84 : 152.0-158.0m
 NL54 : 200.0-203.0m
 NB47 : 225.0-228.0m

LOCATION : Wat Paen Thong Sapharam
 Tambon : Sam Wa Tawan Tok
 Amphoe : Min Buri
 Charawat : Bangkok
 UTM Grid : 858354

**GROUNDWATER LEVEL CHANGES
 AT STATION No. 75**

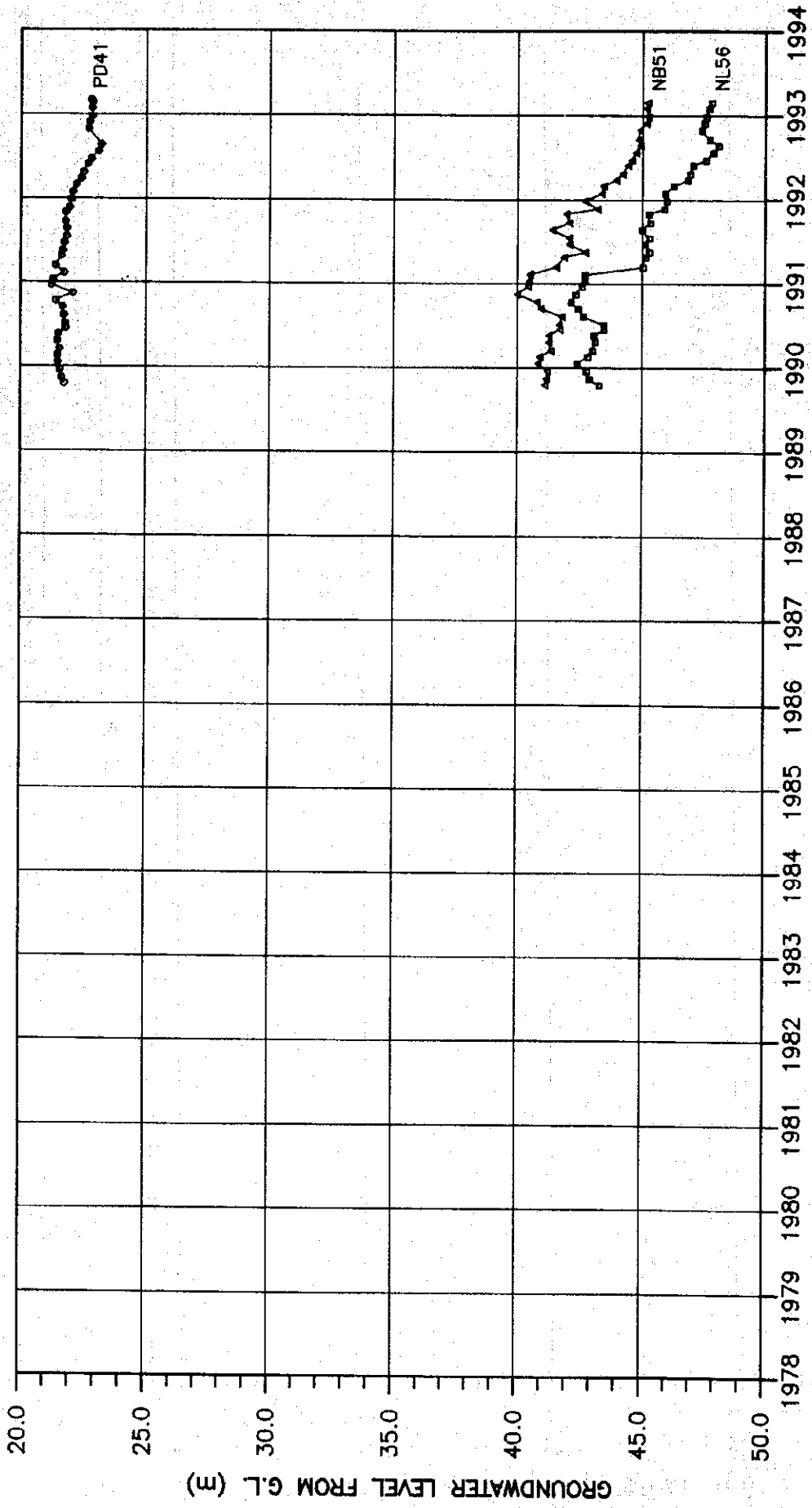
**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.



GROUNDWATER LEVEL CHANGES AT STATION No. 76
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Kho Non
 Tambon : Bang Wa
 Amphoe : Phasi Charoen
 Changwat : Bangkok
 UTM Grid : 576162
SCREEN DEPTH
 NL53 : 147.0-153.0m



YEAR

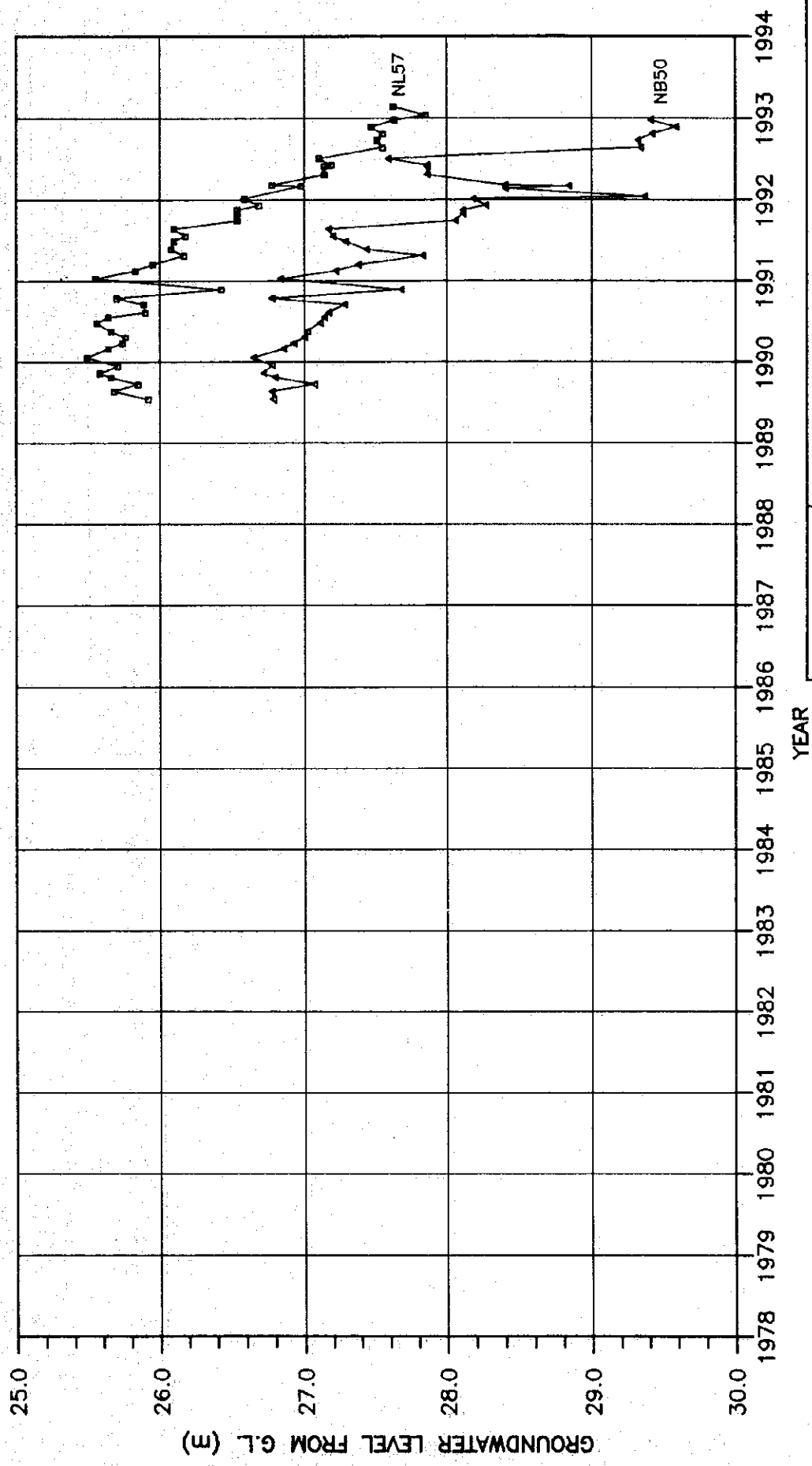
**GROUNDWATER LEVEL CHANGES
AT STATION No. 77**

LOCATION : Praphat Wittthaya School
 Tambon : Khlong Kum
 Amphoe : Bang Kapi
 Changwat : Bangkok
 UTM Grid : 794259

SCREEN DEPTH
 PD41 : 79.0 - 85.0 m
 NL56 : 161.0 - 167.0 m
 NB51 : 214.0 - 220.0 m

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



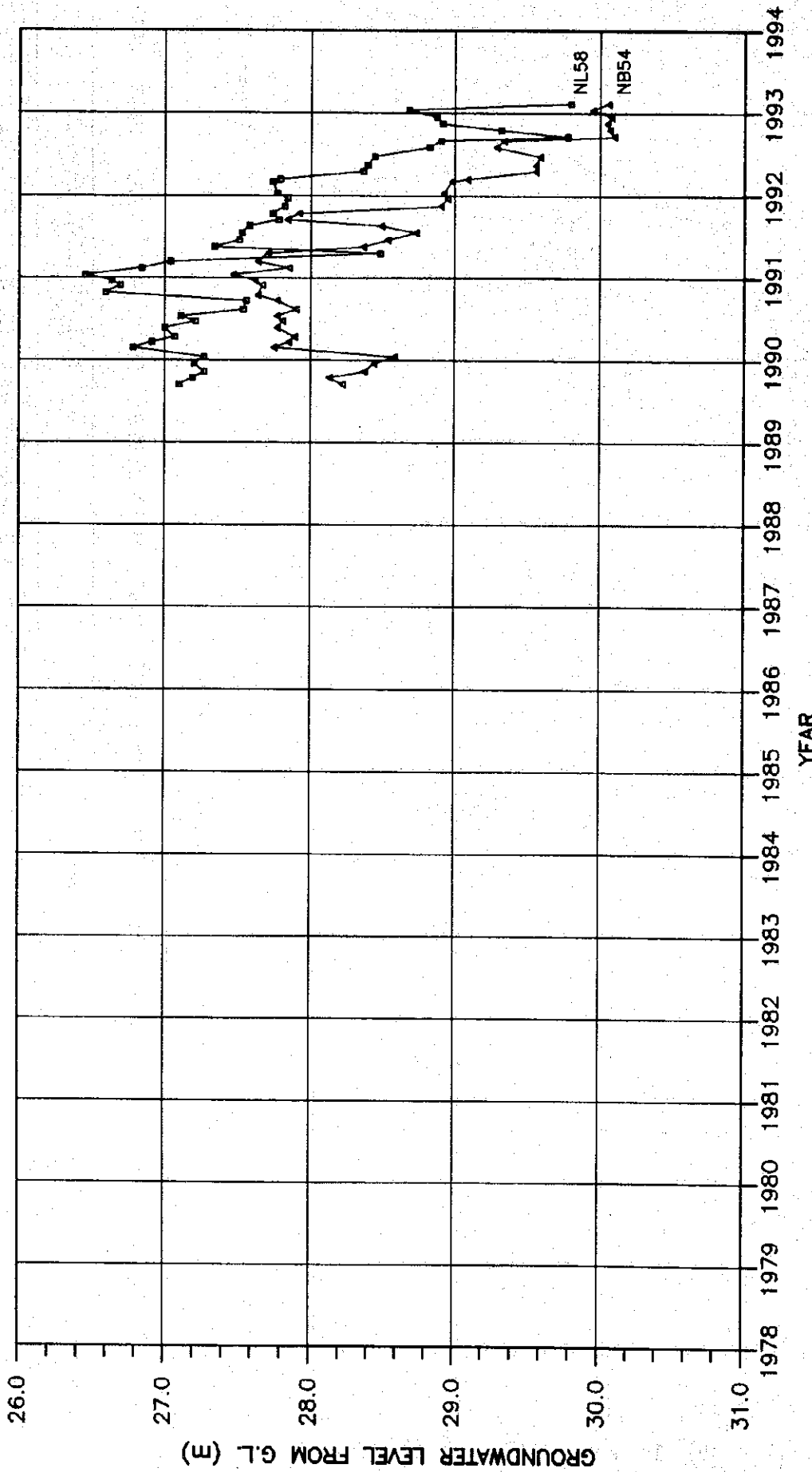
**GROUNDWATER LEVEL CHANGES
AT STATION No. 78**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Chaiyathit
 Tambon : Bang Khunsi
 Amphoe : Bangkok Noi
 Changwat : Bangkok
 UTM Grid : 576214

SCREEN DEPTH
 NL57 : 156.0-162.0m
 NB50 : 220.0-226.0m



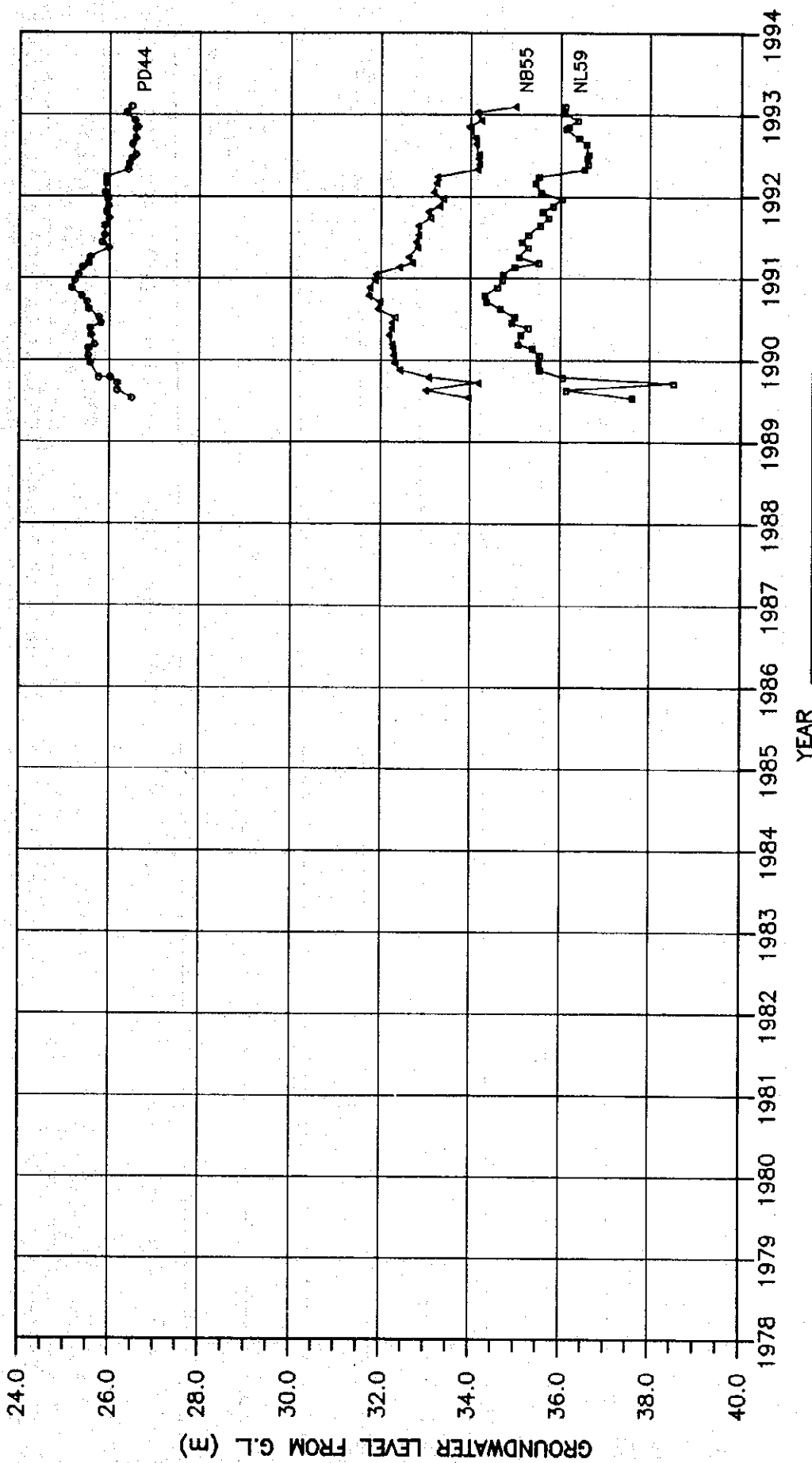
**GROUNDWATER LEVEL CHANGES
AT STATION No. 79**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Itsalam Witthayalai School
 Tambon : Thung Khru
 Amphoe : Rat Burana
 Changwat : Bangkok
 UTM Grid : 629075

SCREEN DEPTH
 NL58 : 162.0-168.0m
 NB54 : 203.0-209.0m



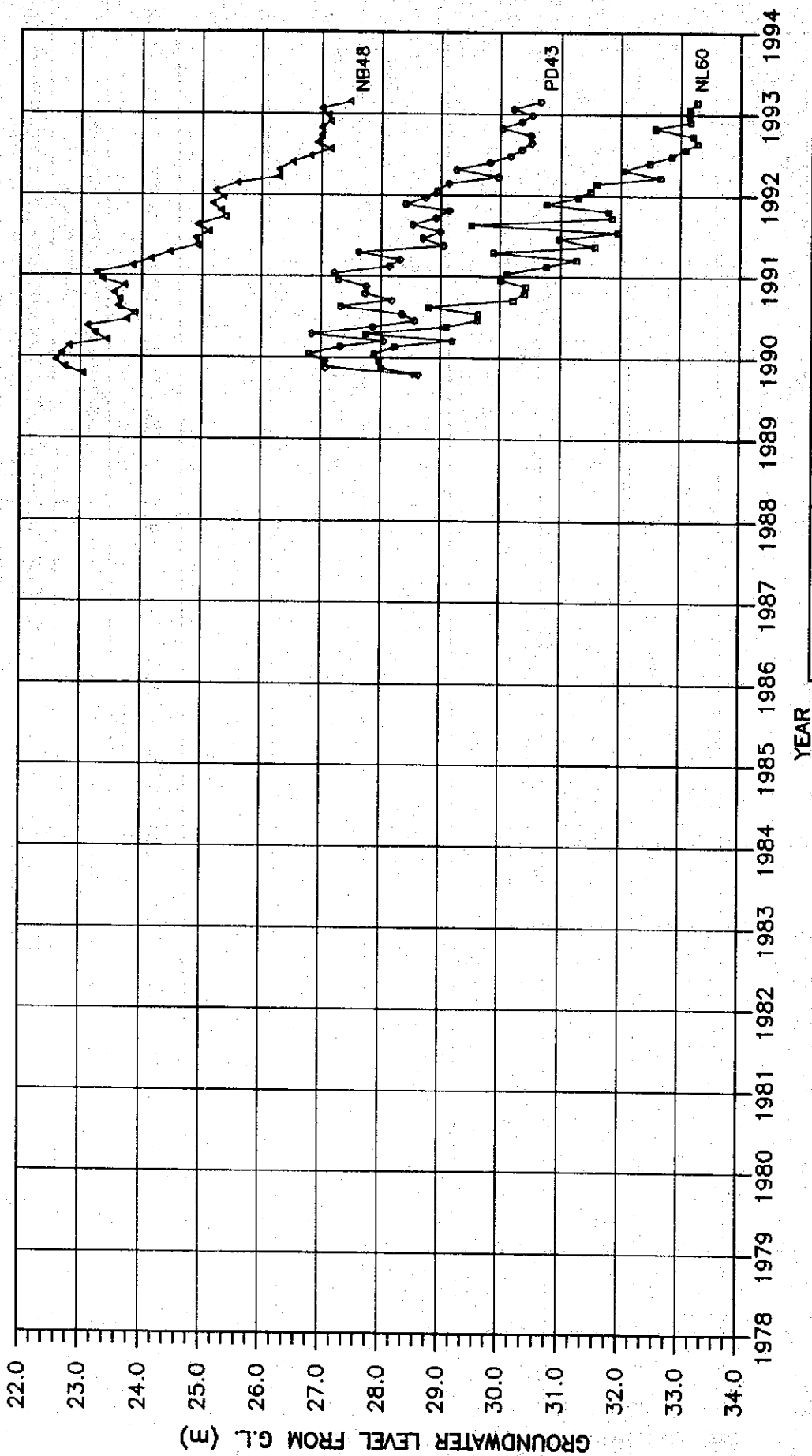
GROUNDWATER LEVEL CHANGES
AT STATION No. 80

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : 11th Channel T.V. Station
 Tambon : Bang Kapi
 Amphoe : Huai Khwang
 Changwat : Bangkok
 UTM Grid : 713198

SCREEN DEPTH
 PD44 : 97.0-103.0m
 NL59 : 160.0-166.0m
 NB55 : 206.0-212.0m



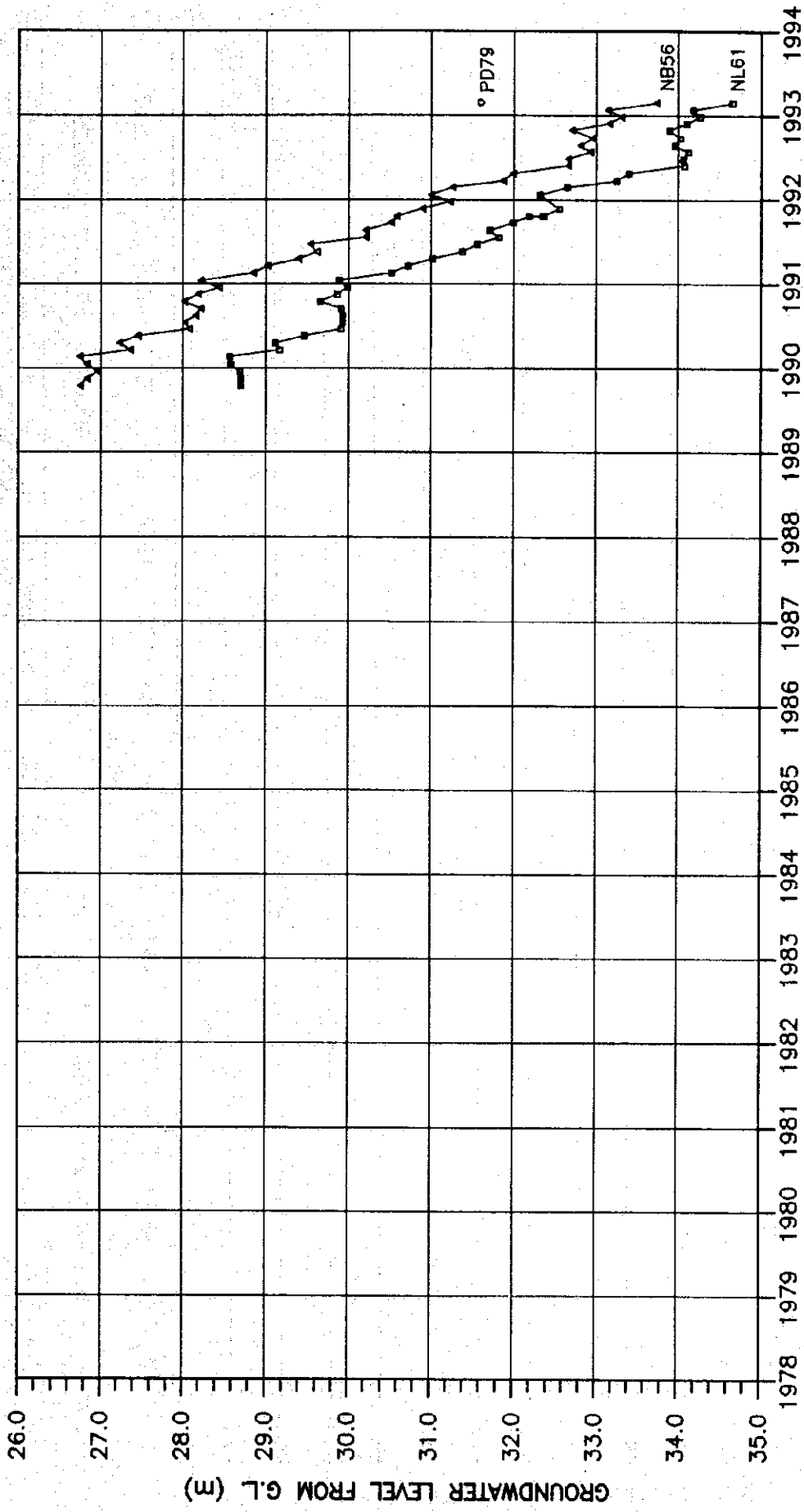
LOCATION : Wat Sip Song Thanwaram
 Tambon : Bang Pu Mai
 Amphoe : Muang Samut Prakan
 Changwat : Samut Prakan
 UTM Grid : 762966

SCREEN DEPTH
 PD43 : 89.0 - 95.0m
 NL60 : 131.0 - 137.0m
 NB48 : 206.0 - 212.0m

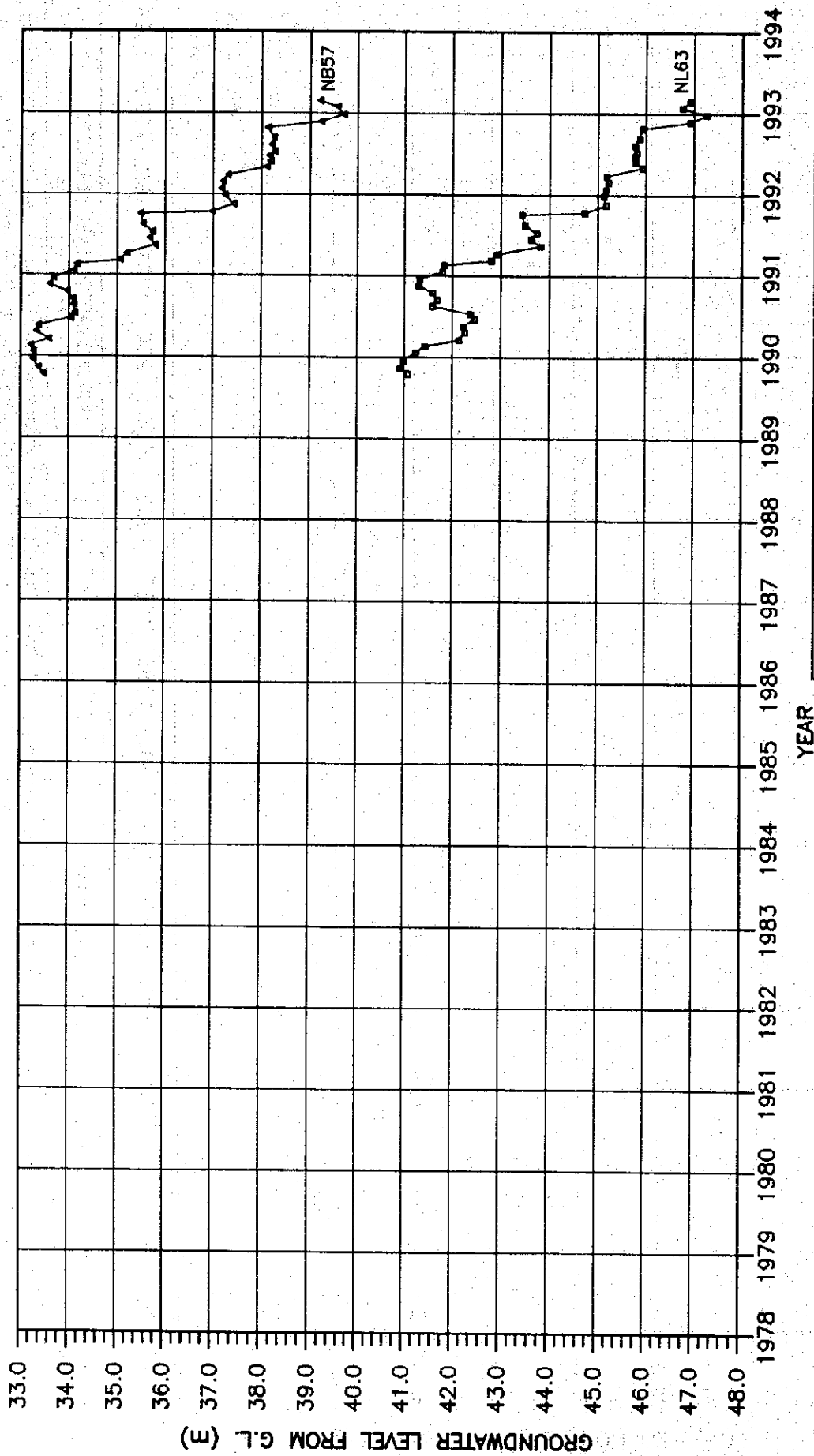
GROUNDWATER LEVEL CHANGES
 AT STATION No. 81

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



GROUNDWATER LEVEL CHANGES AT STATION No. 82	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.	
LOCATION : Wat Noi Suwannaram Tambon : — Amphoe : Bang Phli Changwat : Samut Prakan UTM Grid : 825993	SCREEN DEPTH PD79 : 150.0—156.0 m NL61 : 201.0—207.0 m NB56 : 201.0—207.0 m



LOCATION : Bang Phli Switching Office
 Tambon : Bang Phli
 Amphoe : Samut Prakan
 Changwat : Samut Prakan
 UTM Grid : 837085

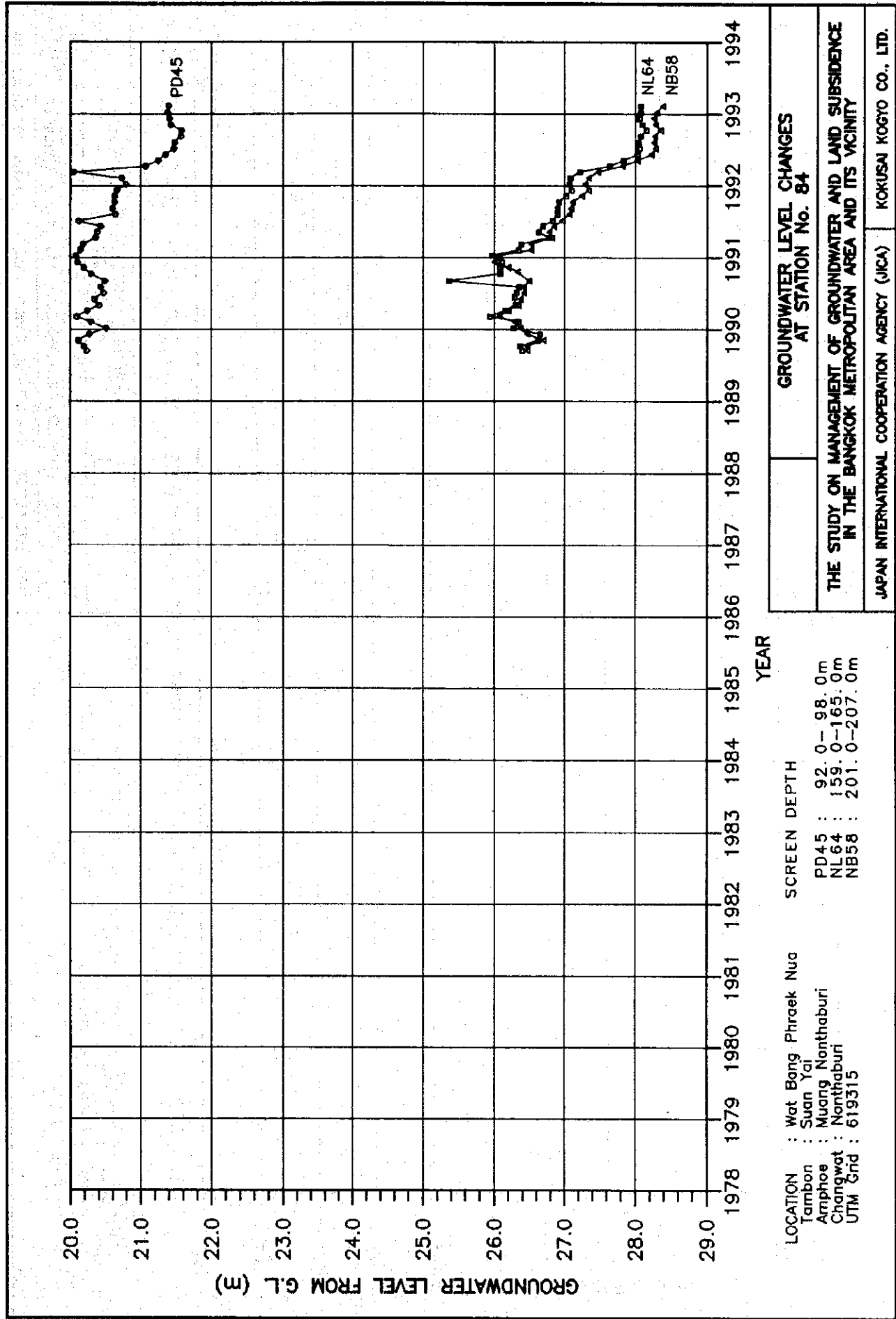
SCREEN DEPTH

NL63 : 131.0-137.0m
 NB57 : 195.0-201.0m

GROUNDWATER LEVEL CHANGES AT STATION No. 83

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



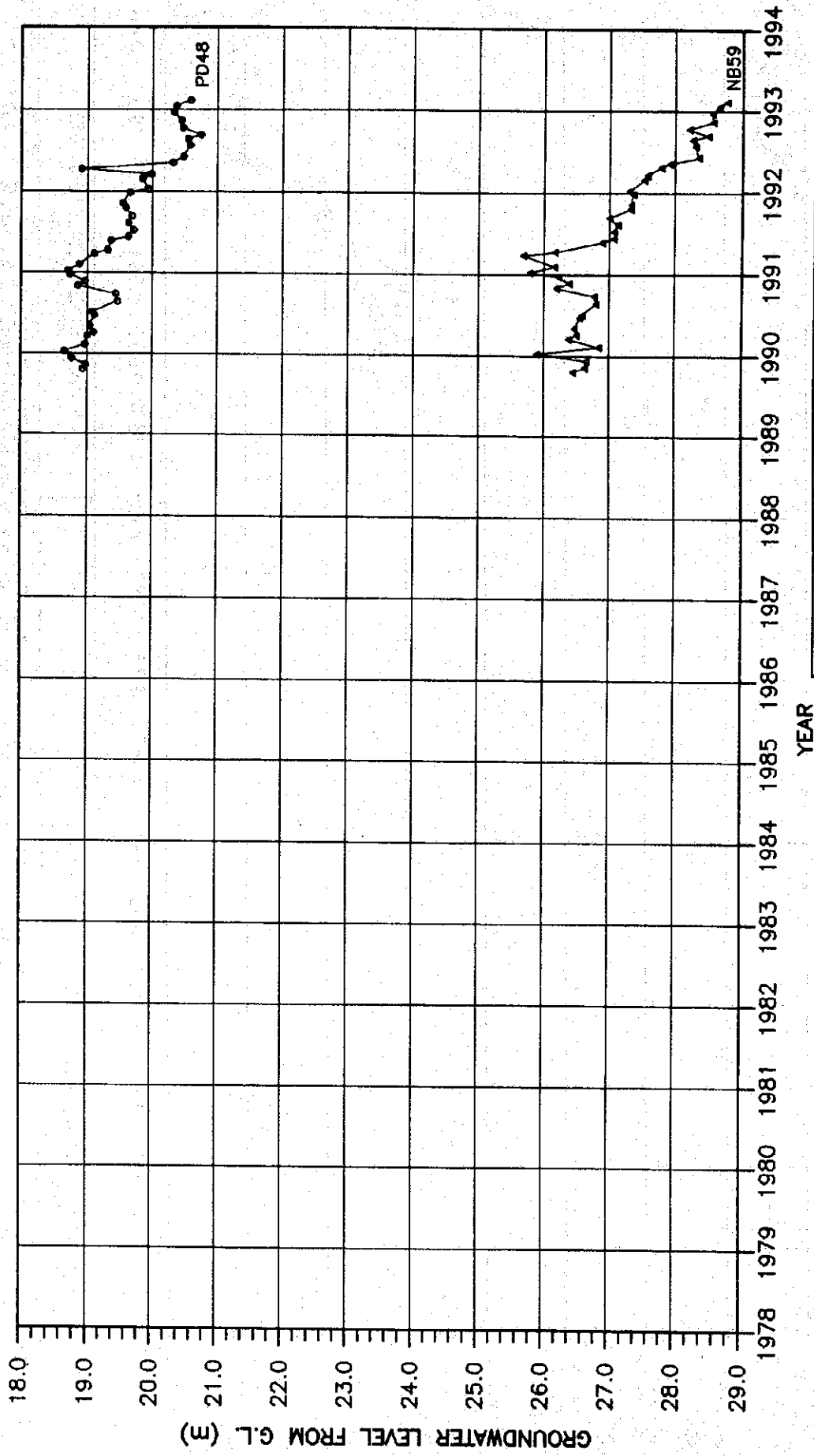
GROUNDWATER LEVEL CHANGES
AT STATION No. 84

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Bang Phraek Nua
 Tambon : Suan Yai
 Amphoe : Muang Nonthaburi
 Changwat : Nonthaburi
 UTM Grid : 619315

SCREEN DEPTH
 PD45 : 92.0 - 98.0 m
 NL64 : 159.0 - 165.0 m
 NB58 : 201.0 - 207.0 m

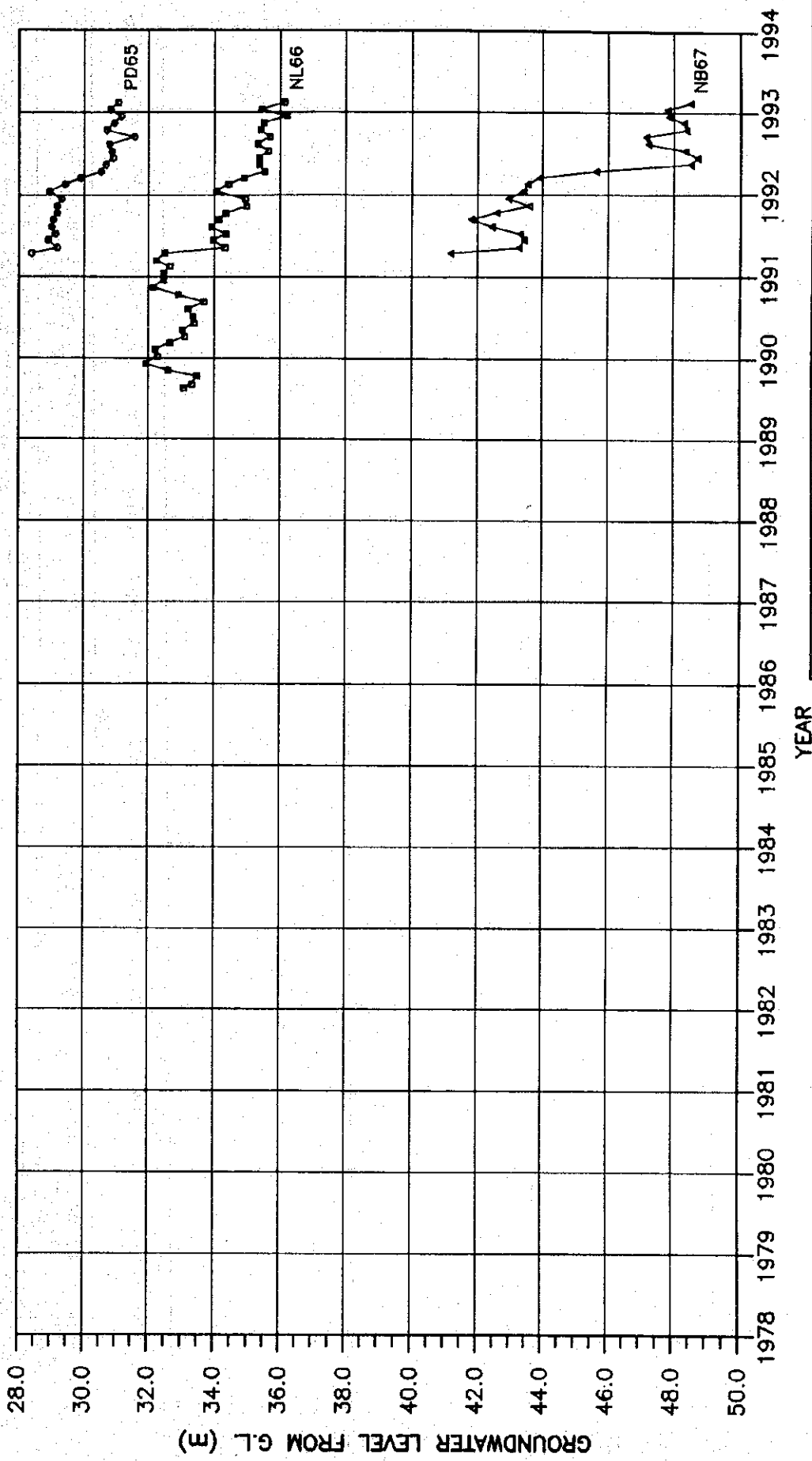


GROUNDWATER LEVEL CHANGES AT STATION No. 85

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Chinwanaram Worawihan SCREEN DEPTH
 Tambon : Bang Khayaeng PD48 : 86.0-92.0m
 Amphoe : Muang Pathum Thani NB59 : 208.0-214.0m
 Changwat : Pathum Thani
 UTM Grid : 658442



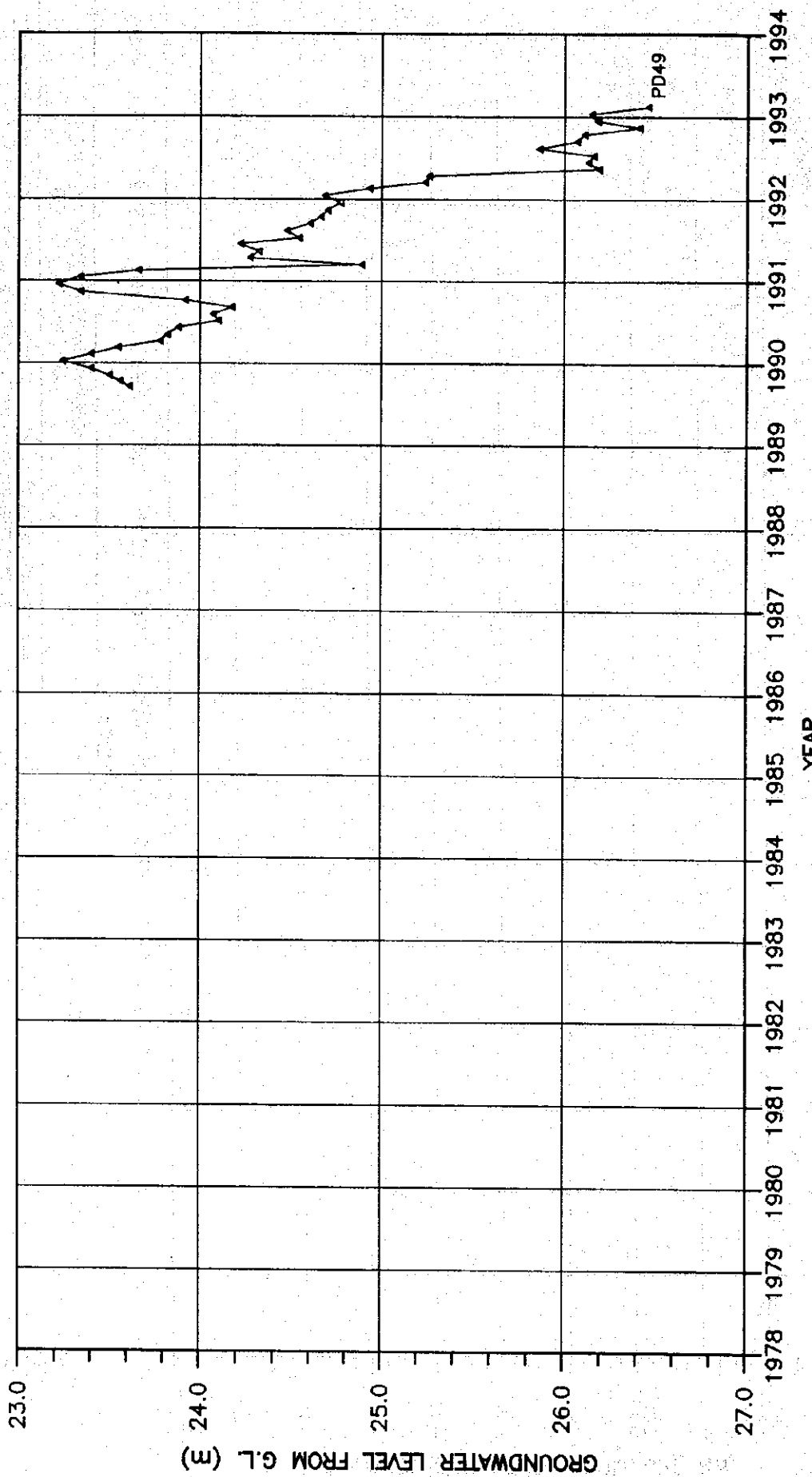
**GROUNDWATER LEVEL CHANGES
AT STATION No. 86**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Rangsit Switching Office
 Tambon : Khlong Luang
 Amphoe : Pathum Thani
 Changwat : Pathum Thani
 UTM Grid : 748521

SCREEN DEPTH
 PD65 : 106.0-112.0m
 NL66 : 156.0-162.0m
 NB67 : 217.0-223.0m



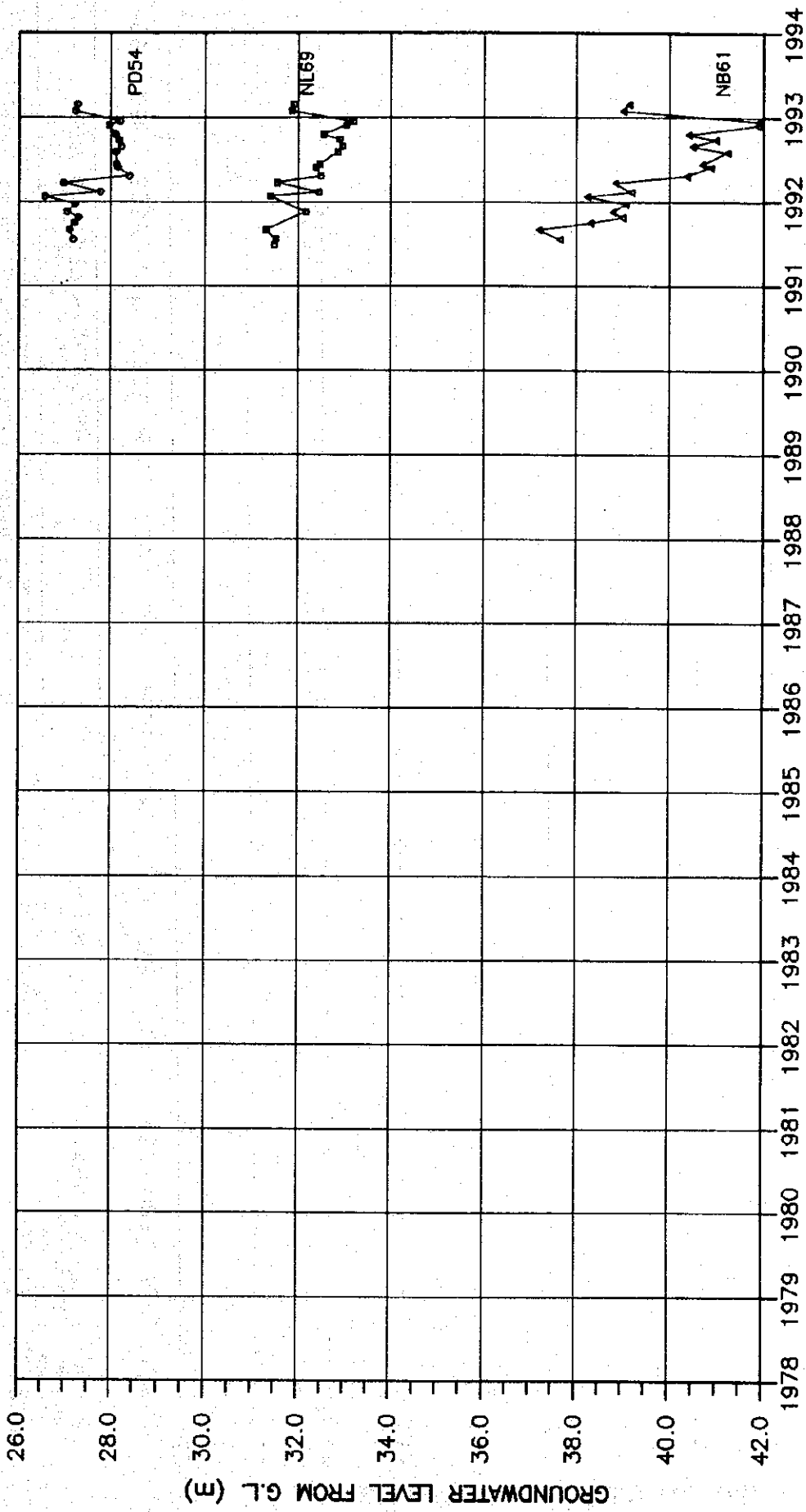
**GROUNDWATER LEVEL CHANGES
AT STATION No. 87**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Agriculture College
 Tambon : Khu Khot
 Amphos : Lam Luk Ka
 Changwat : Pathum Thani
 UTM Grid : 745458

SCREEN DEPTH
 PD49 : 99.0-105.0m



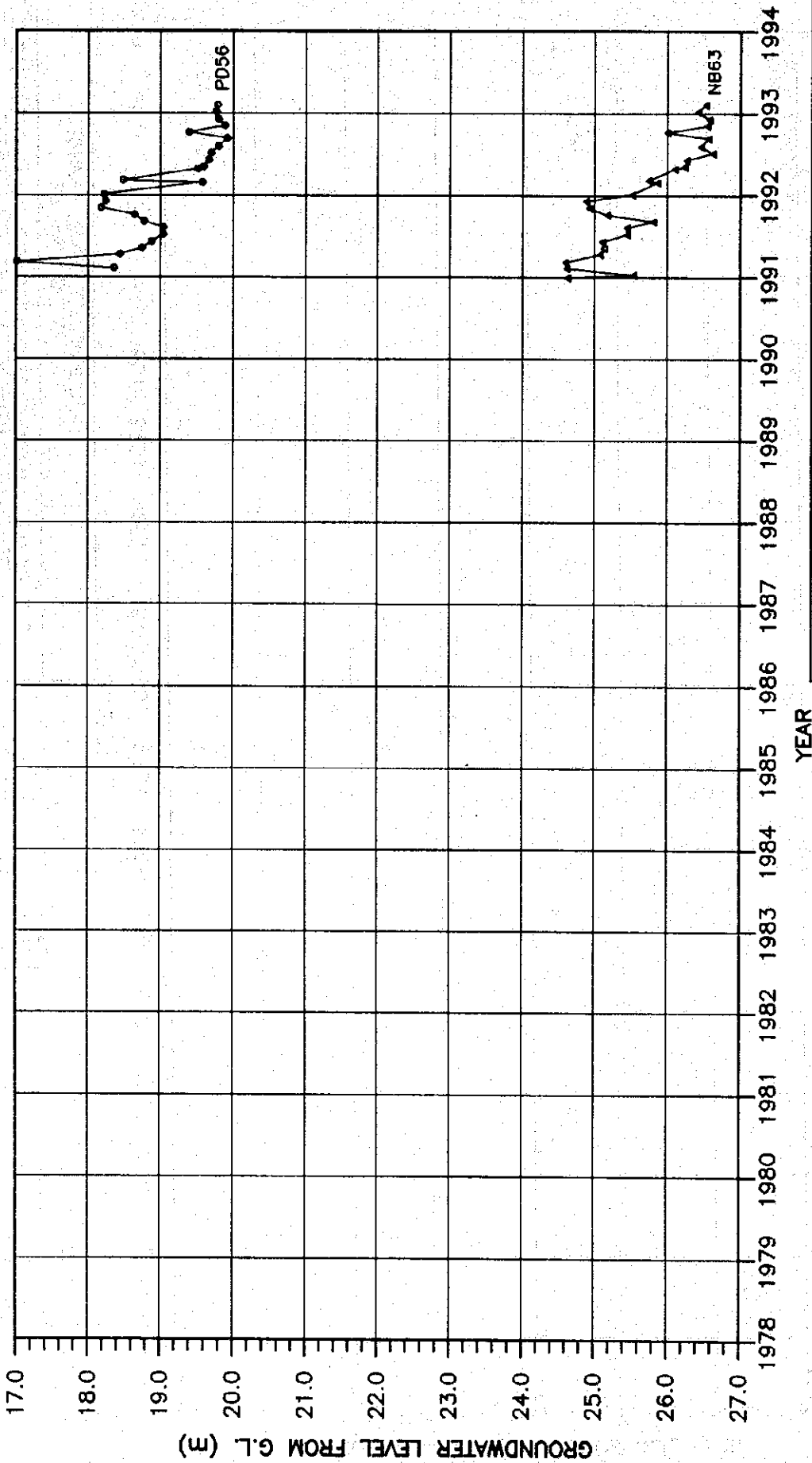
**GROUNDWATER LEVEL CHANGES
AT STATION No. 88**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Tha Phut
 Tambon : Rai Khing
 Amphoe : Sam Phran
 Changwat : Nakhon Pathum
 UTM Grid : 383199

SCREEN DEPTH
 PD54 : 86.0 - 92.0m
 NL69 : 145.0 - 151.0m
 NB61 : 186.0 - 192.0m



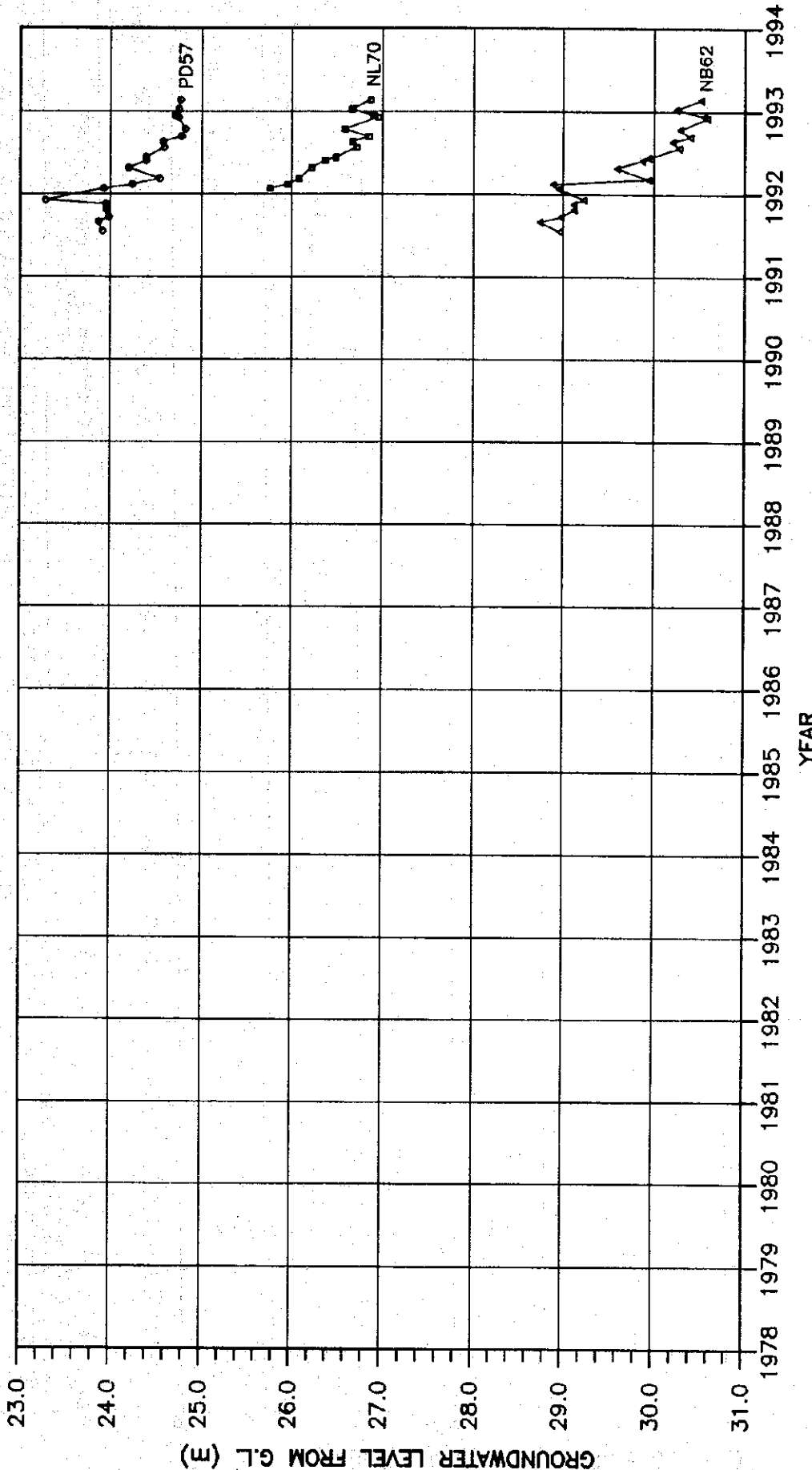
**GROUNDWATER LEVEL CHANGES
AT STATION No. 89**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSA KOGYO CO., LTD.

LOCATION : Wat Phikun Ngoen
 Tambon : Bang Muang
 Amphos : Bang Yai
 Changwat : Northaburi
 UTM Grid : 541312

SCREEN DEPTH
 PD56 : 91.0 - 97.0m
 NB63 : 215.0 - 221.0m



**GROUNDWATER LEVEL CHANGES
AT STATION No. 90**

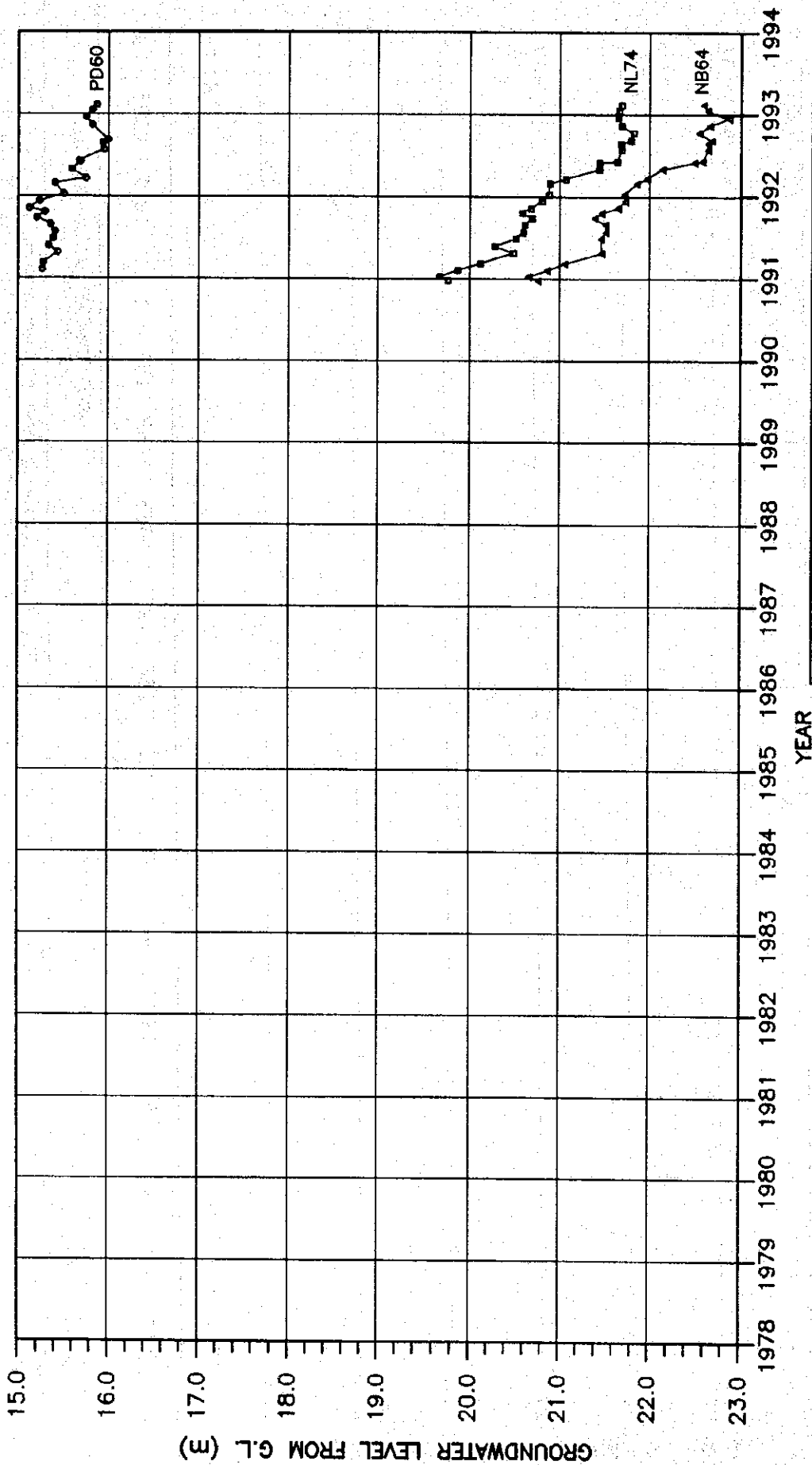
**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

SCREEN DEPTH

PD57 : 70.0 - 76.0m
 NL70 : 134.0 - 140.0m
 NB62 : 219.0 - 225.0m

LOCATION : Wat Ninsukharam
 Tambon : Bang Bon
 Amphoe : Bang Khun Thian
 Changwat : Bangkok
 UTM Grid : 521118



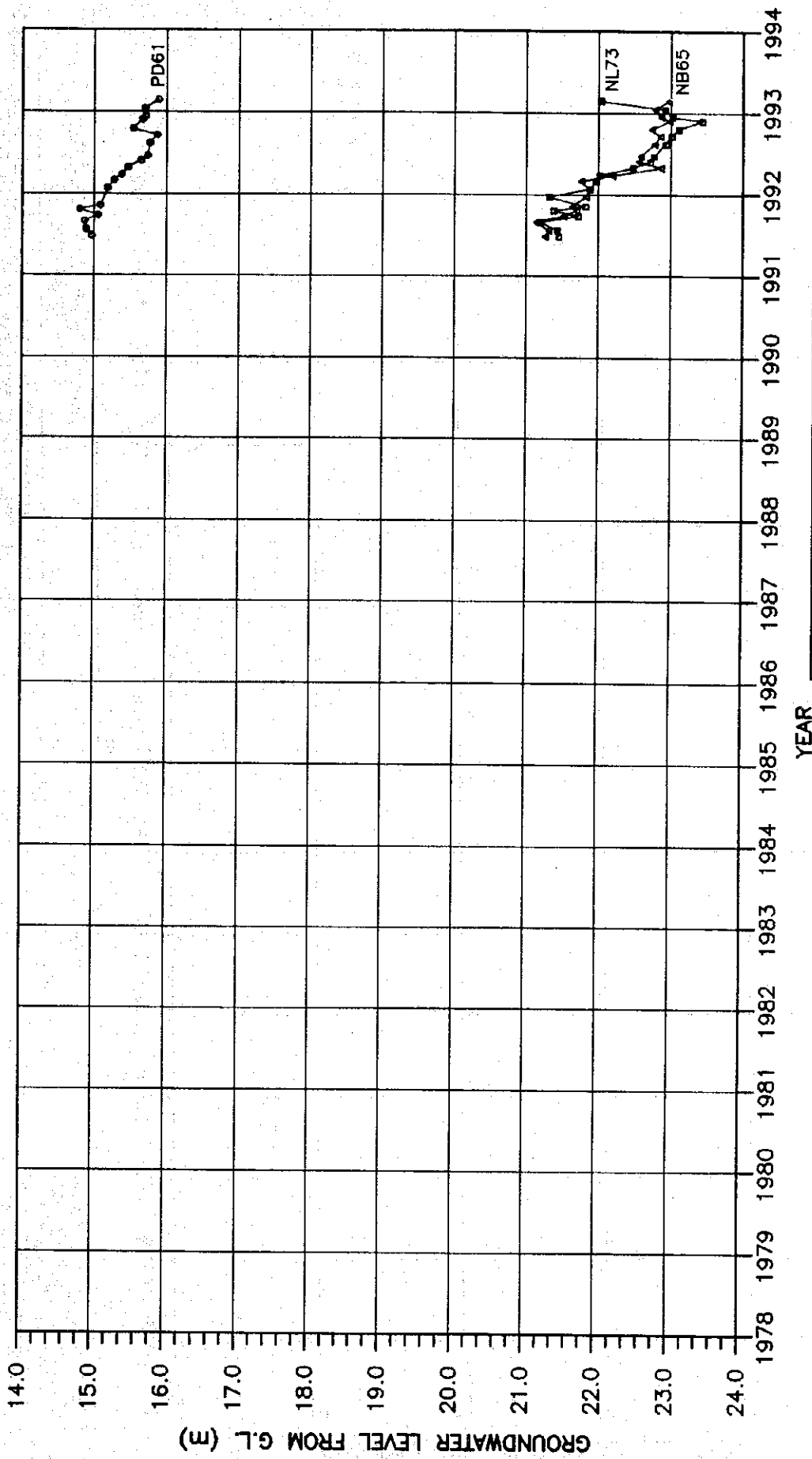
LOCATION : Wat Phraji Fa
 Tambon : Bang Dua
 Amphoe : Muang Pathum Thani
 Changwat : Pathum Thani
 UTM Grid : 605478

SCREEN DEPTH
 PD60 : 104.0-110.0m
 NL74 : 153.3-159.3m
 NB64 : 204.0-210.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 91

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.



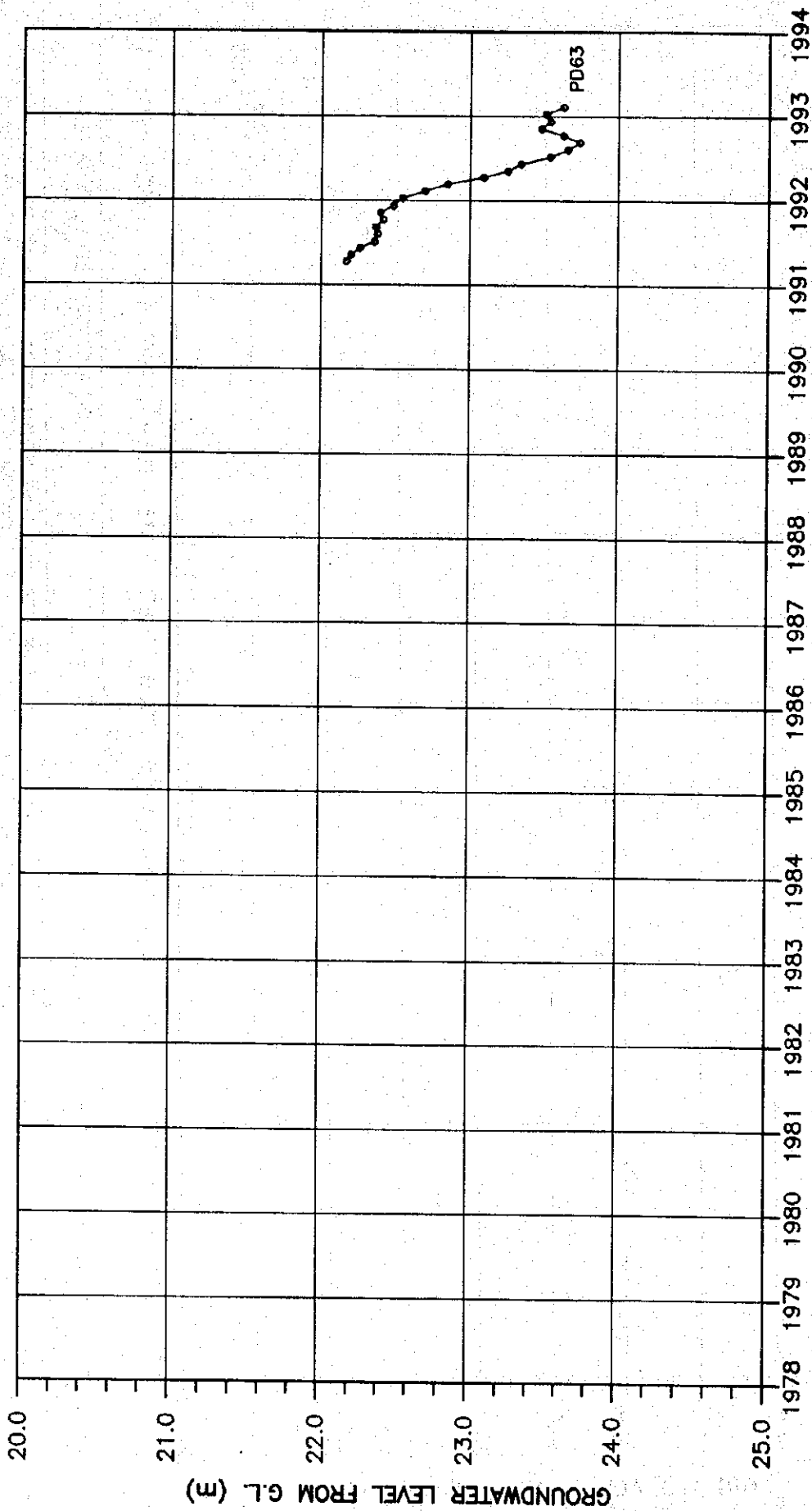
**GROUNDWATER LEVEL CHANGES
AT STATION No. 92**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Limkun Watthana School
 Tambon : —
 Amphoe : Sai Noi
 Changwat : Nonthaburi
 UTM Grid : 405347

SCREEN DEPTH
 PD61 : 95.0-101.0m
 NL73 : 159.0-165.0m
 NB65 : 212.0-218.0m



LOCATION : Wat Phasuk
 Tambon : Pak Kret
 Amphoe : Pak Kret
 Changwat : Nonthaburi
 UTM Grid : 668379

SCREEN DEPTH

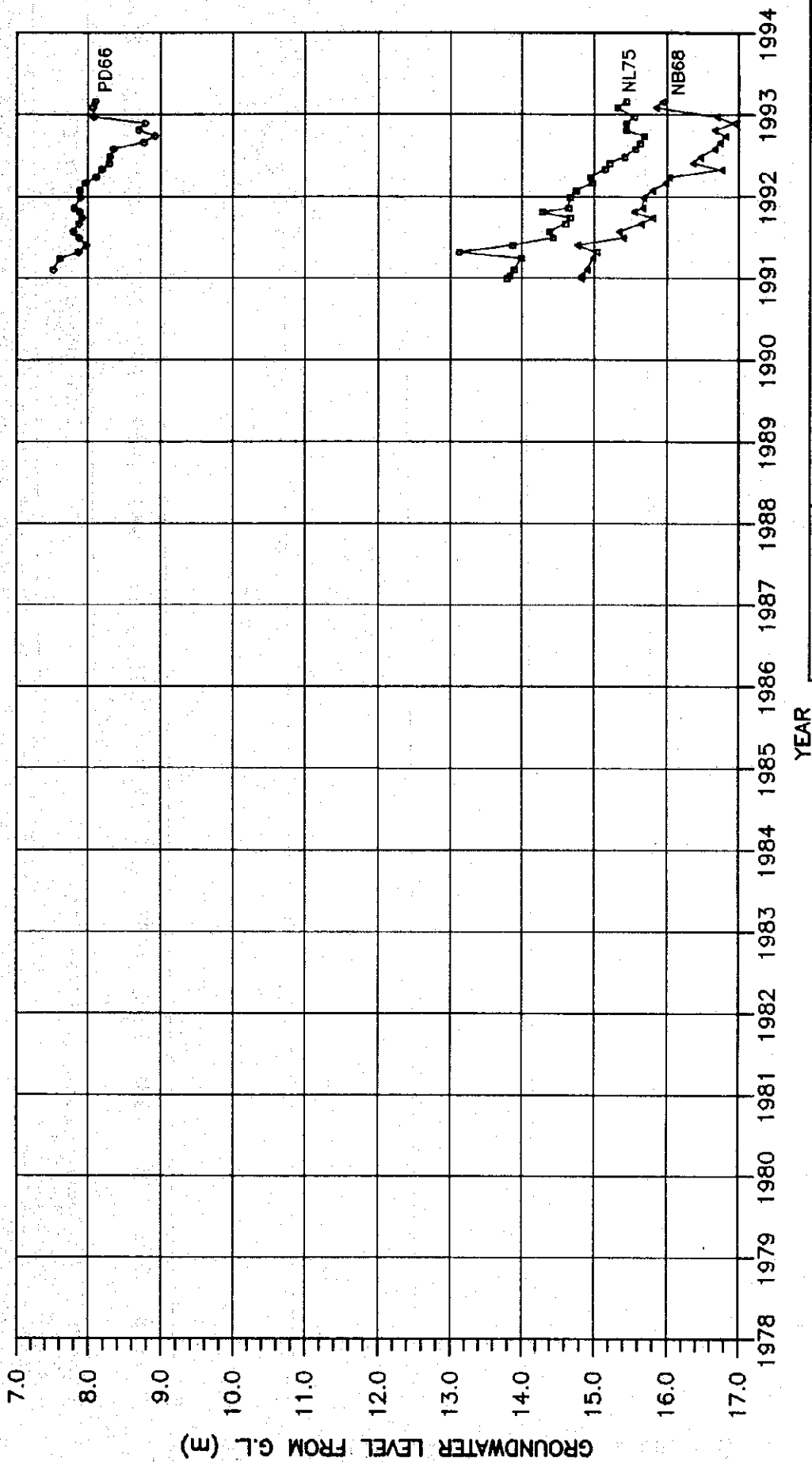
PD63 : 101.0-107.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 93

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

KOKUSAI KOGYO CO., LTD.



**GROUNDWATER LEVEL CHANGES
AT STATION No. 94**

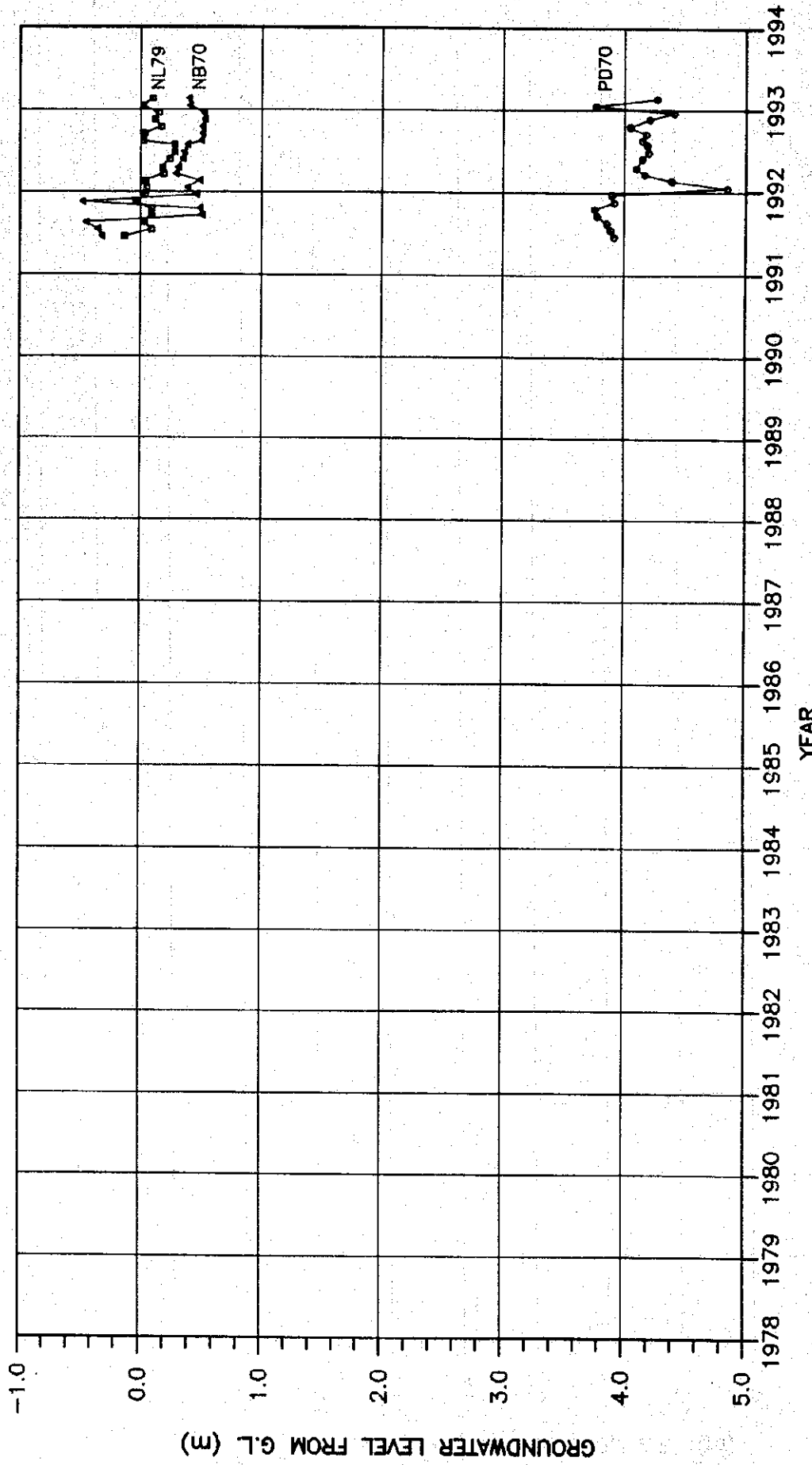
**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

YEAR

SCREEN DEPTH
 PD66 : 81.0 - 87.0m
 NL75 : 144.0 - 150.0m
 NB68 : 220.0 - 226.0m

LOCATION : Wat Lak Khong
 Tambon : Rat Niyan
 Amphoe : Sai Noi
 Changwat : Nonthaburi
 UTM Grid : 451594



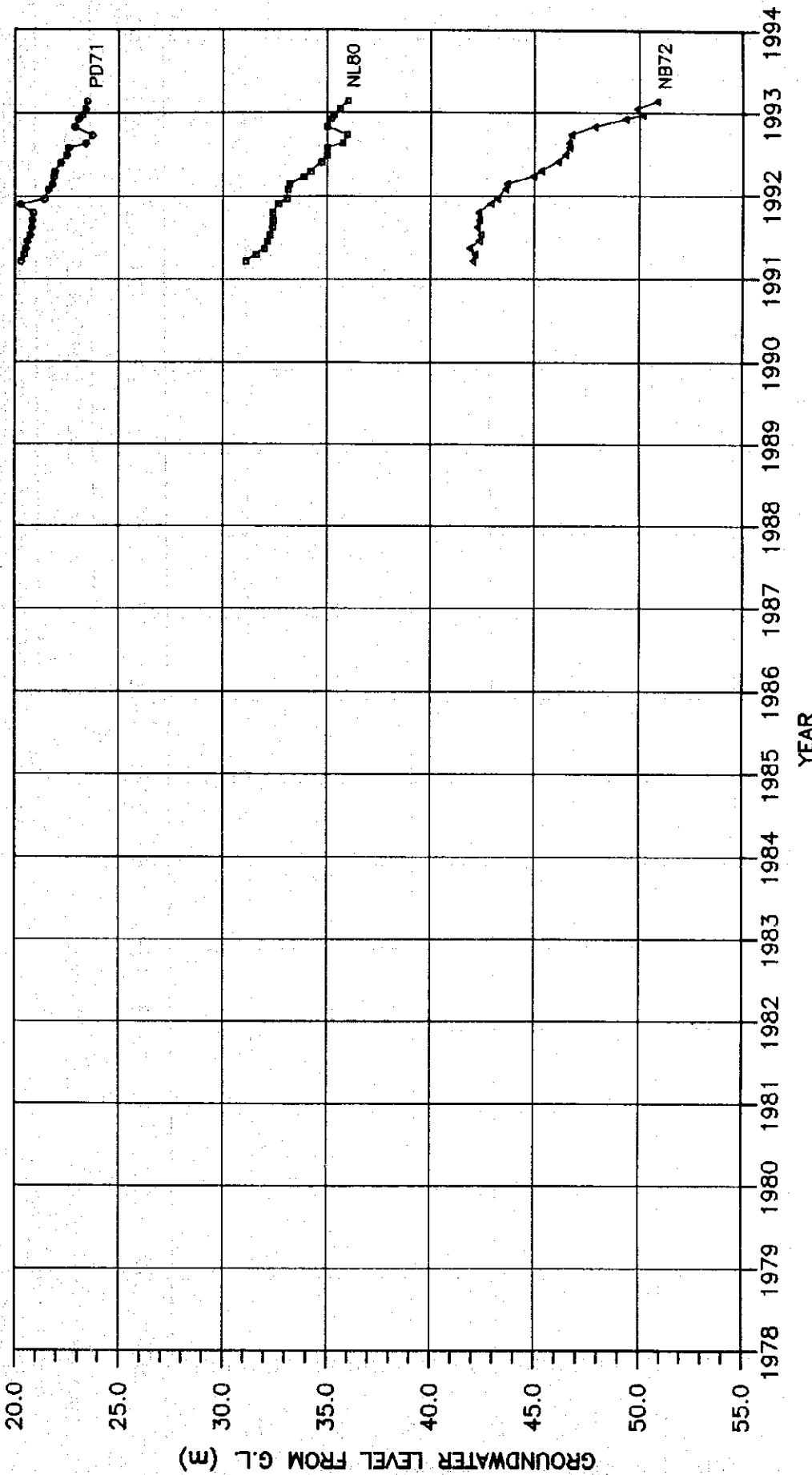
**GROUNDWATER LEVEL CHANGES
AT STATION No. 96**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Phichit Pittayaram
 Tambon : Bung Nam Rak
 Amphoe : Thanyaburi
 Changwat : Pathum Thani
 UTM Ghd : 046568

SCREEN DEPTH
 PD70 : 108.0-114.0m
 NL79 : 165.0-171.0m
 NB70 : 198.0-204.0m



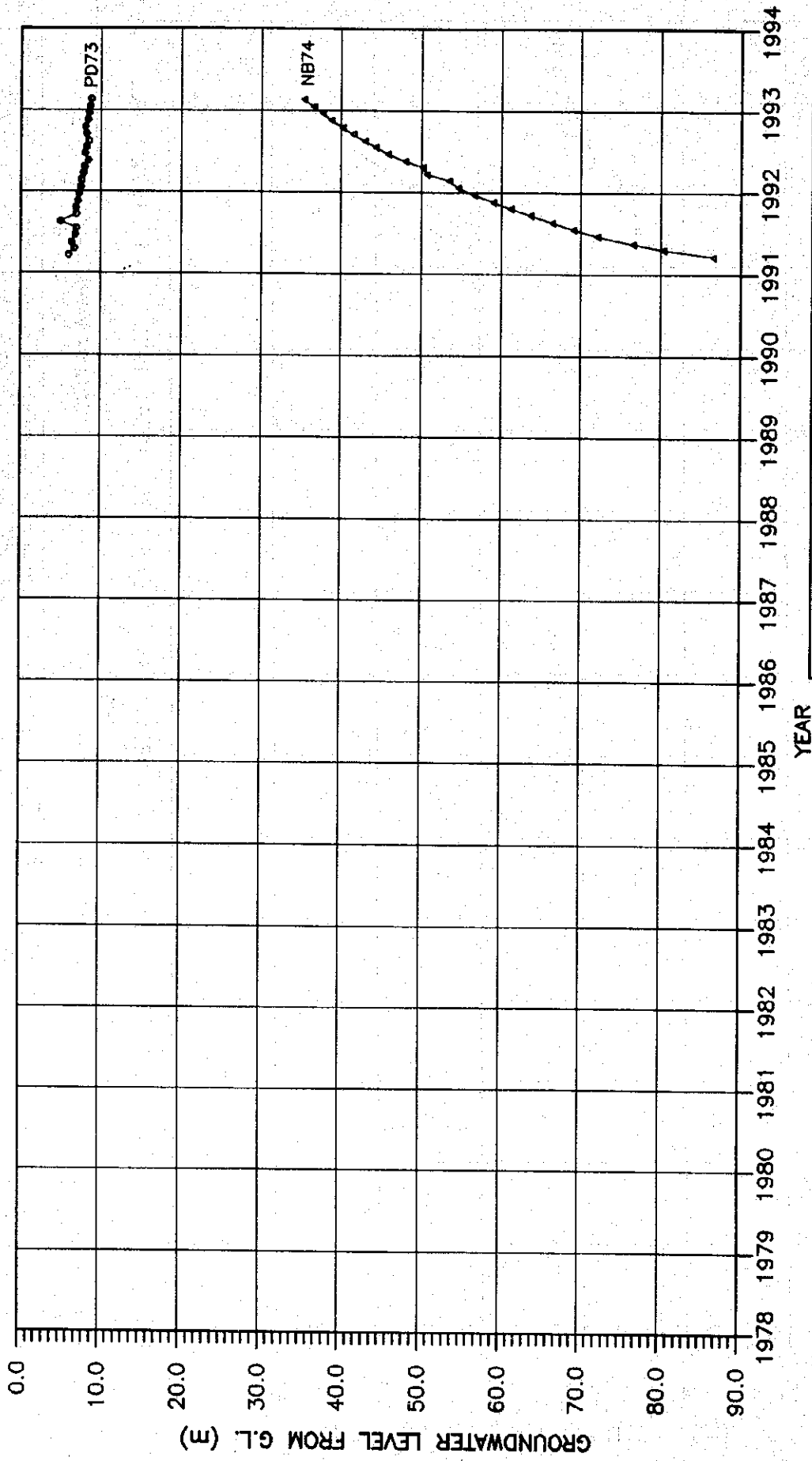
GROUNDWATER LEVEL CHANGES
AT STATION No. 97

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Mun Chindaram
 Tambon : Bung Yitha
 Amphoe : Thanyaburi
 Changwat : Pathum Thani
 UTM Grid : 849489

SCREEN DEPTH
 PD71 : 84.0 - 90.0m
 NL80 : 125.0 - 131.0m
 NB72 : 166.0 - 172.0m

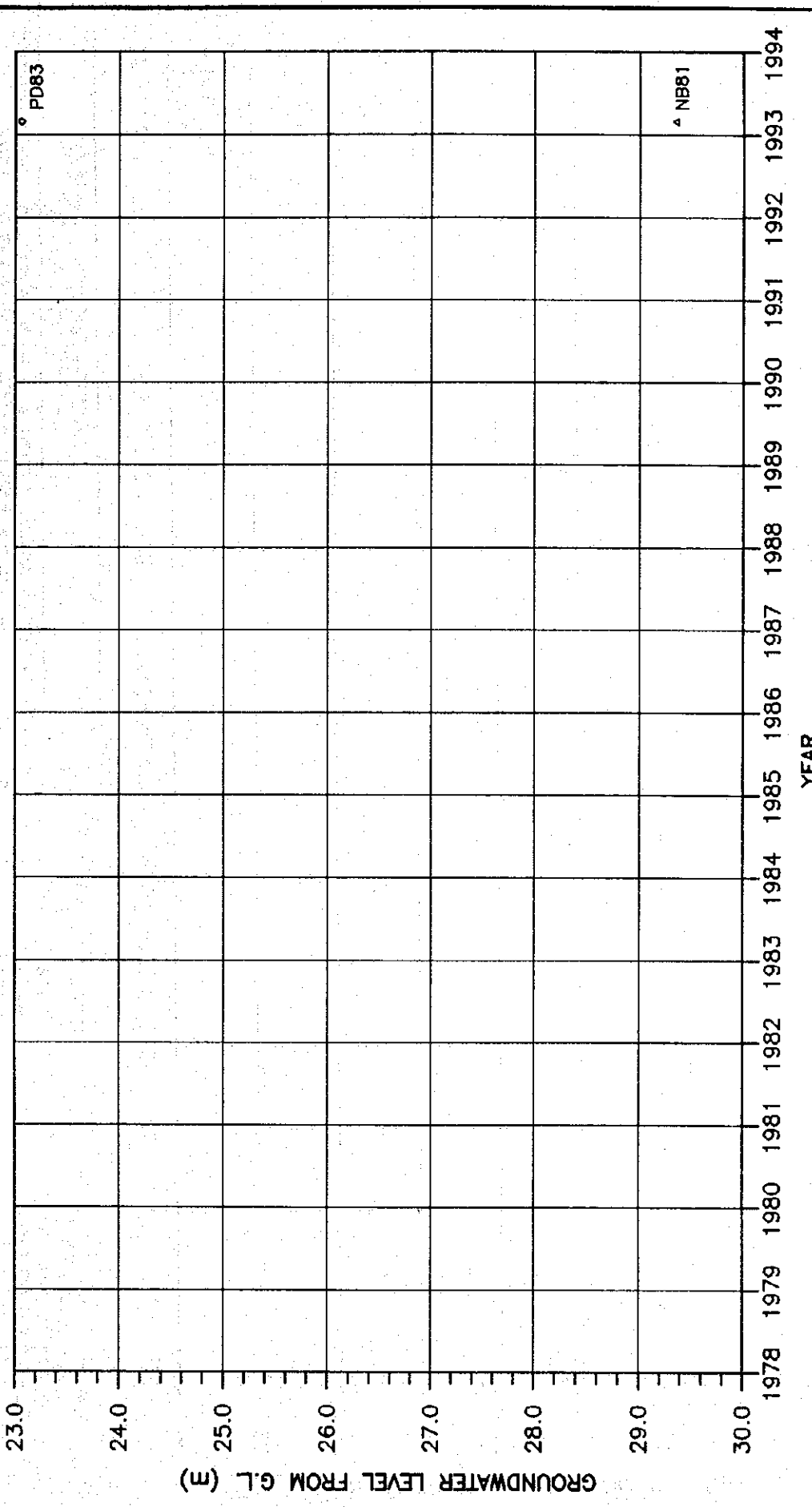


GROUNDWATER LEVEL CHANGES AT STATION No. 98

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) KOKUSAI KOGYO CO., LTD.

LOCATION : Amphoe Office Compound **SCREEN DEPTH**
 Tambon : Bung Ba PD73 : 76.0 - 82.0m
 Amphoe : Nong Sui NB74 : 218.0 - 224.0m
 Changwat : Pathum Thani
 UTM Grid : 974632



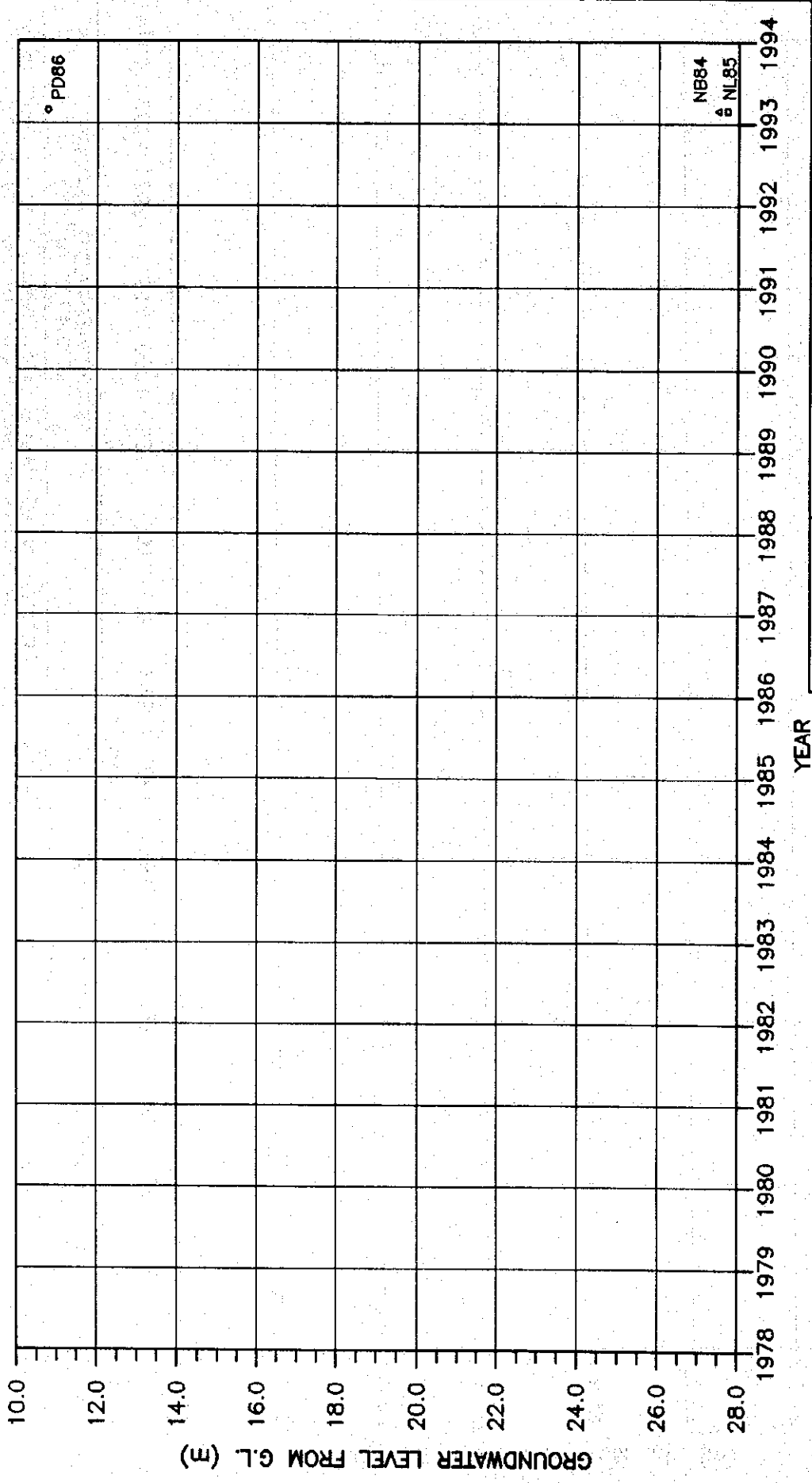
LOCATION : Wat Taling Chan
 Tambon : —
 Amphoe : Taling Chan
 Changwat : Bangkok
 UTM Grid : 579234

SCREEN DEPTH
 PD83 : 90.0-96.0m
 NB81 : 210.0-216.0m

GROUNDWATER LEVEL CHANGES
 AT STATION No. 101

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.



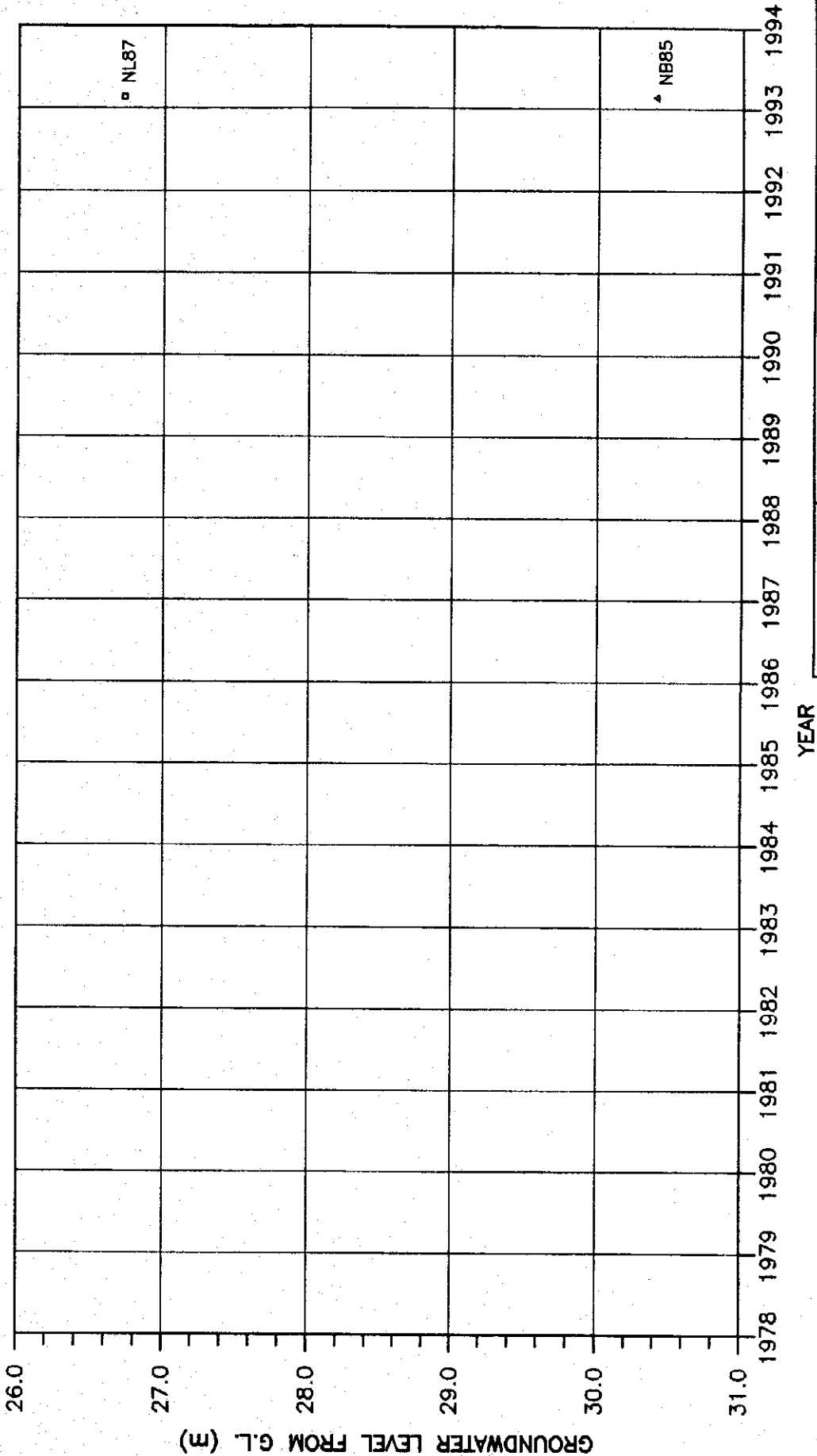
**GROUNDWATER LEVEL CHANGES
AT STATION No. 102**

**THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Wat Lam Taiting
 Tambon :
 Amphoe : Nong Chok
 Changwat : Bangkok
 UTM Grid : 046212

SCREEN DEPTH
 PD86 : m
 NL85 : m
 NB84 : m



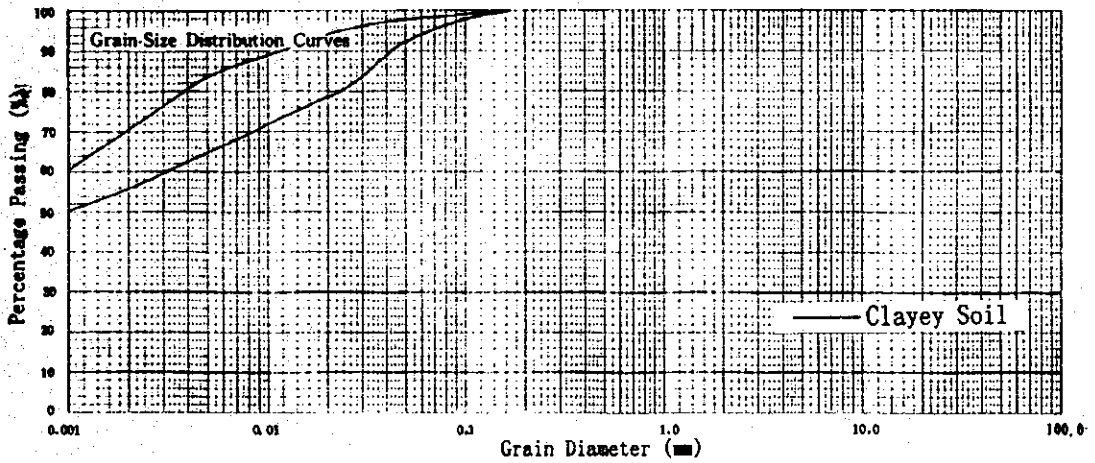
GROUNDWATER LEVEL CHANGES AT STATION No. 103
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD.

LOCATION : Thawi Watthana School
 Tambon : Khwaeng Thawi Watthana
 Amphoe : Taling Chan
 Changwat : Bangkok
 UTM Grid : 46T202
 SCREEN DEPTH
 NL87 : 204.0 - 210.0 m
 NB85 : 204.0 - 210.0 m



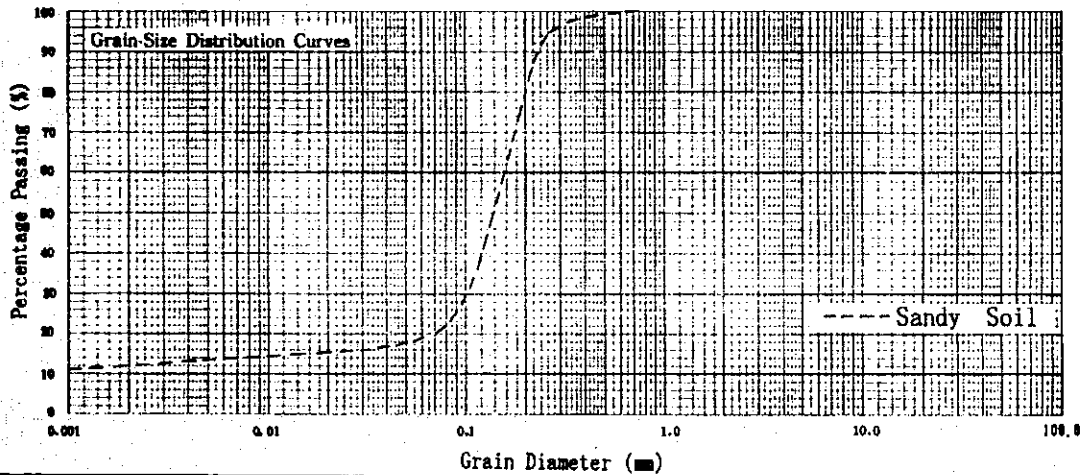
D. SOIL TESTS

D.1 Soil tests result of Site-A



Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

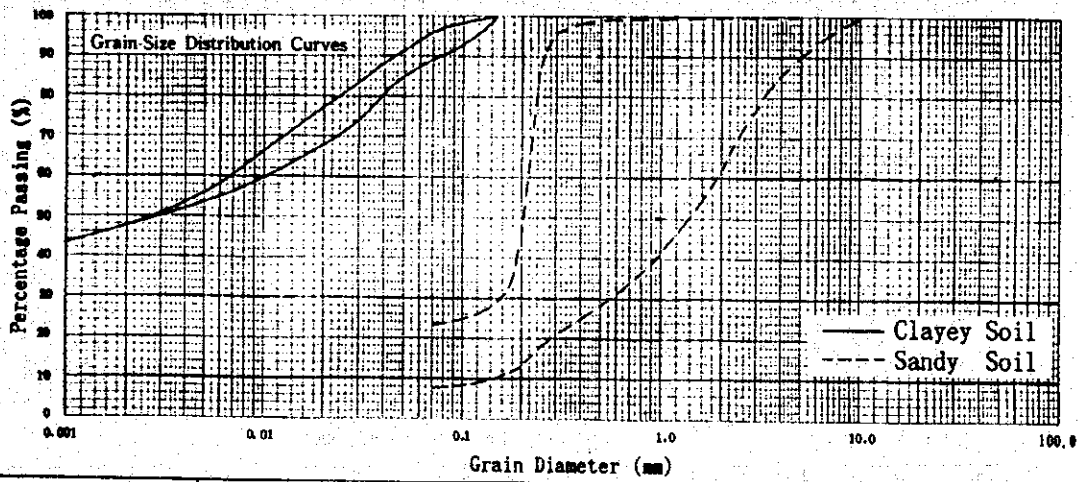
[Sf Layer]



Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

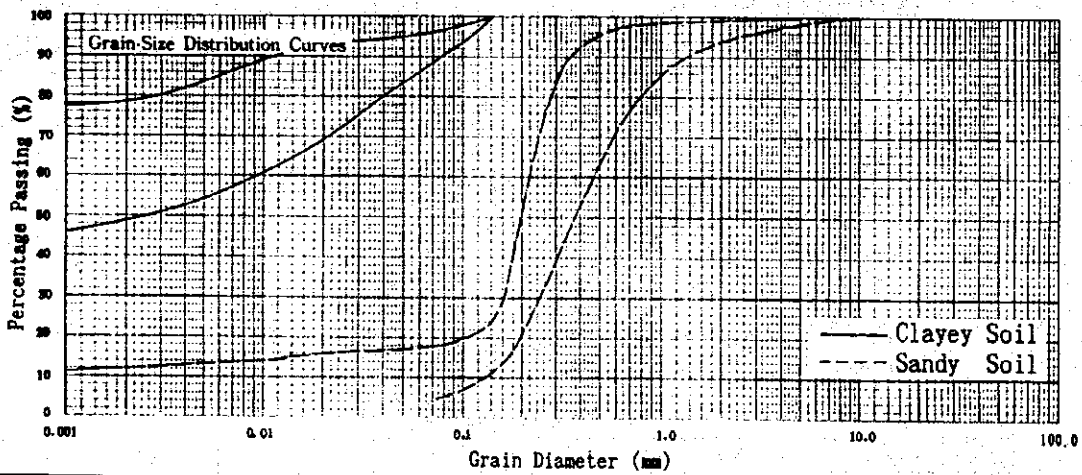
[St Layer]

Grain Size Distribution Curves at Site-A [Sf & St]	
THE STUDY ON MANEGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

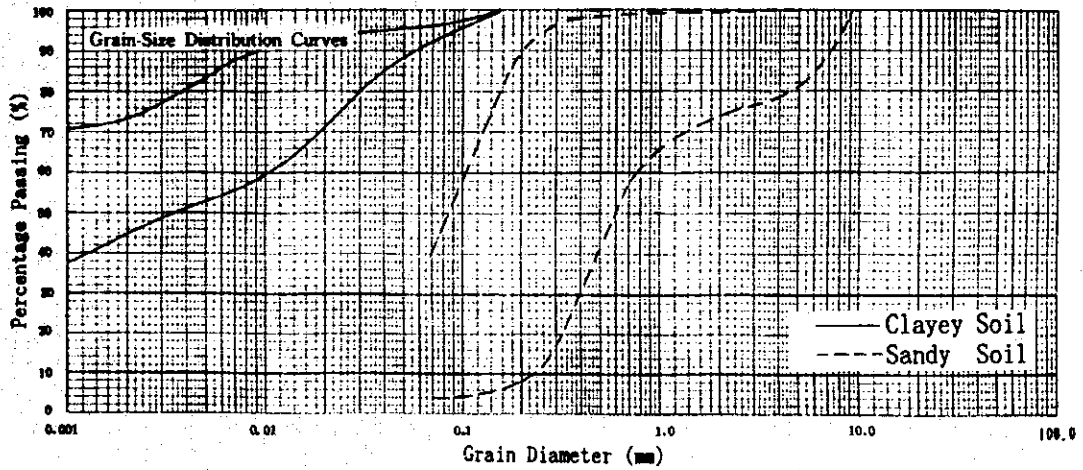
[Bk Layer]



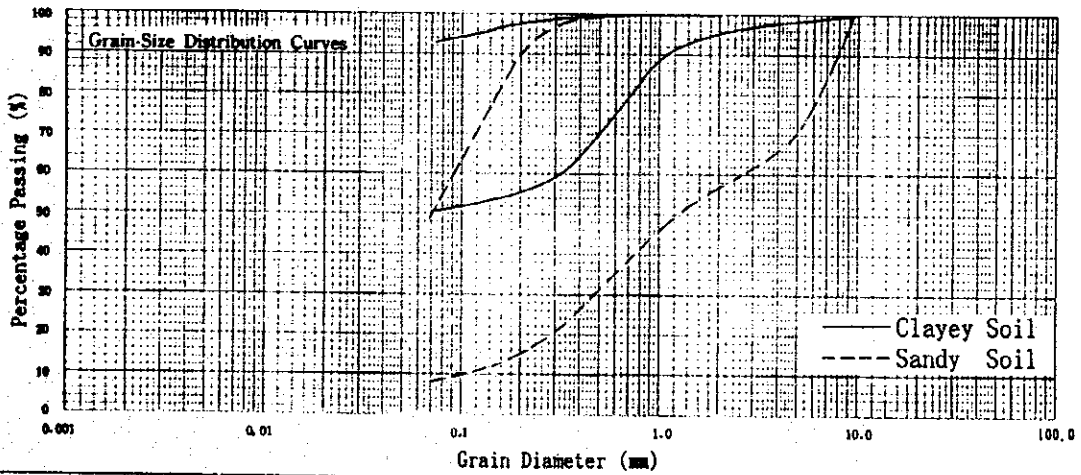
Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

[Pd Layer]

Grain Size Distribution Curves at Site-A [Bk & Pd]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

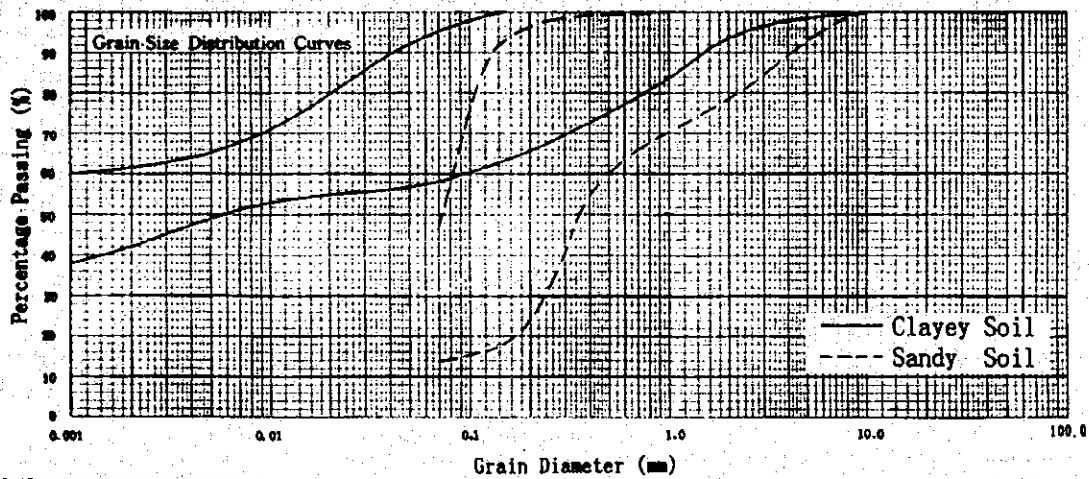


[N1 Layer]

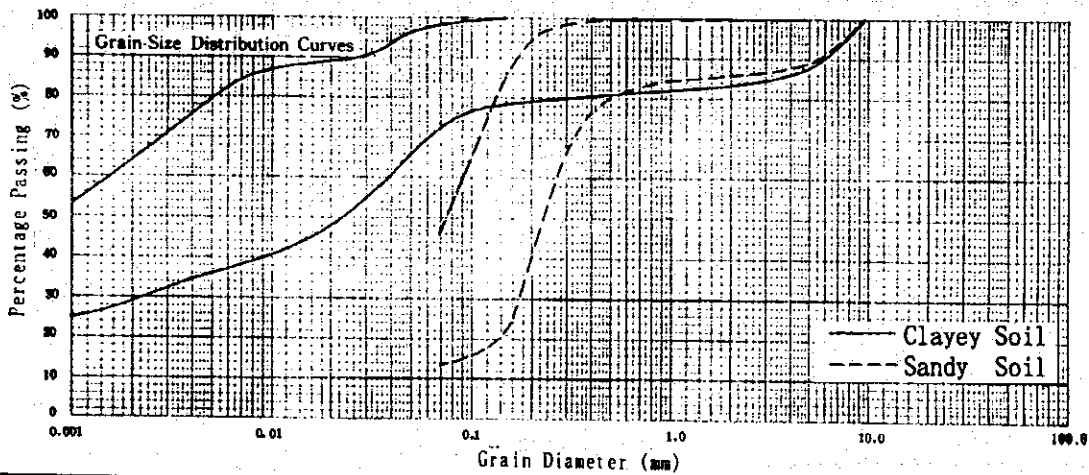


[Nb Layer]

Grain Size Distribution Curves at Site-A [N1 & Nb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

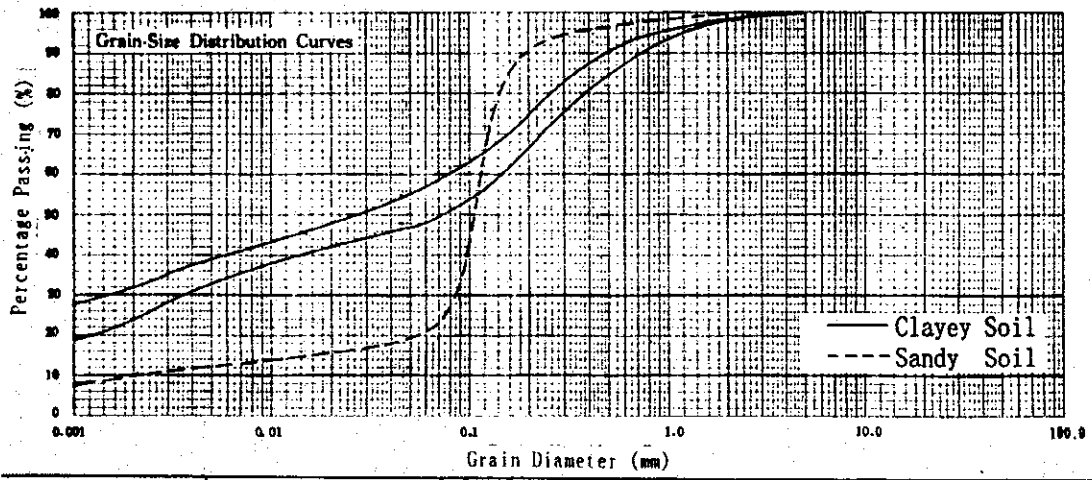


[Sk Layer]



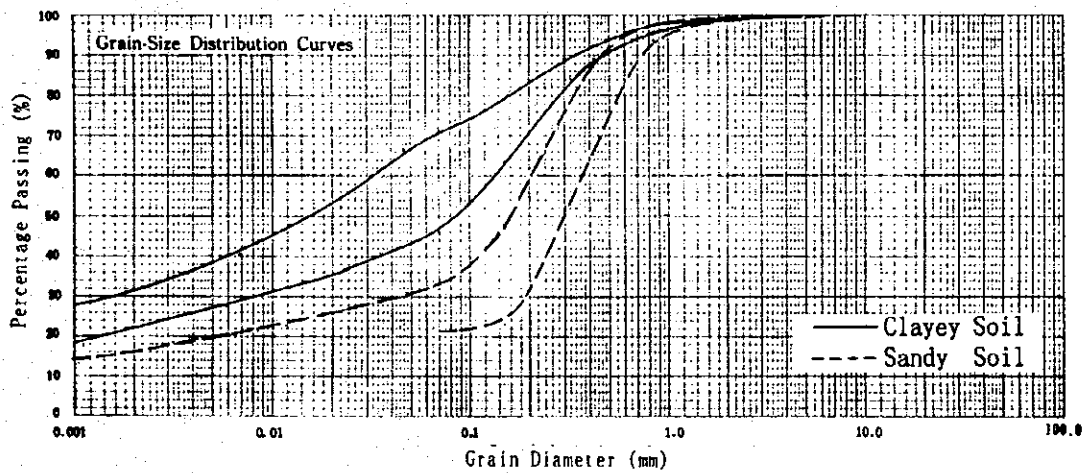
[Pt Layer]

Grain Size Distribution Curves at Site-A [Sk & Pt]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

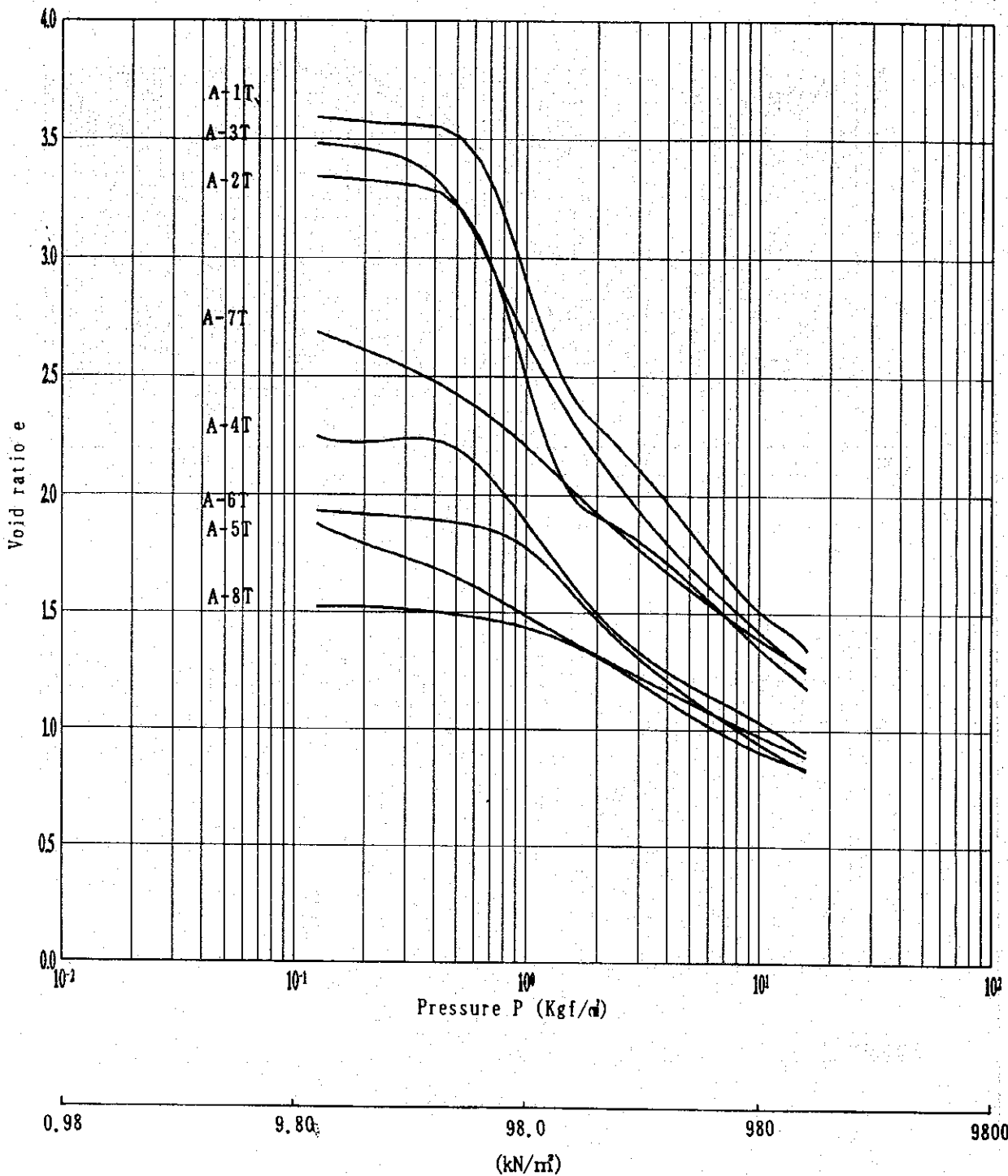
[Tb Layer]



Colloid	Clay	Silt	Sand	Gravel
---------	------	------	------	--------

[Pn Layer]

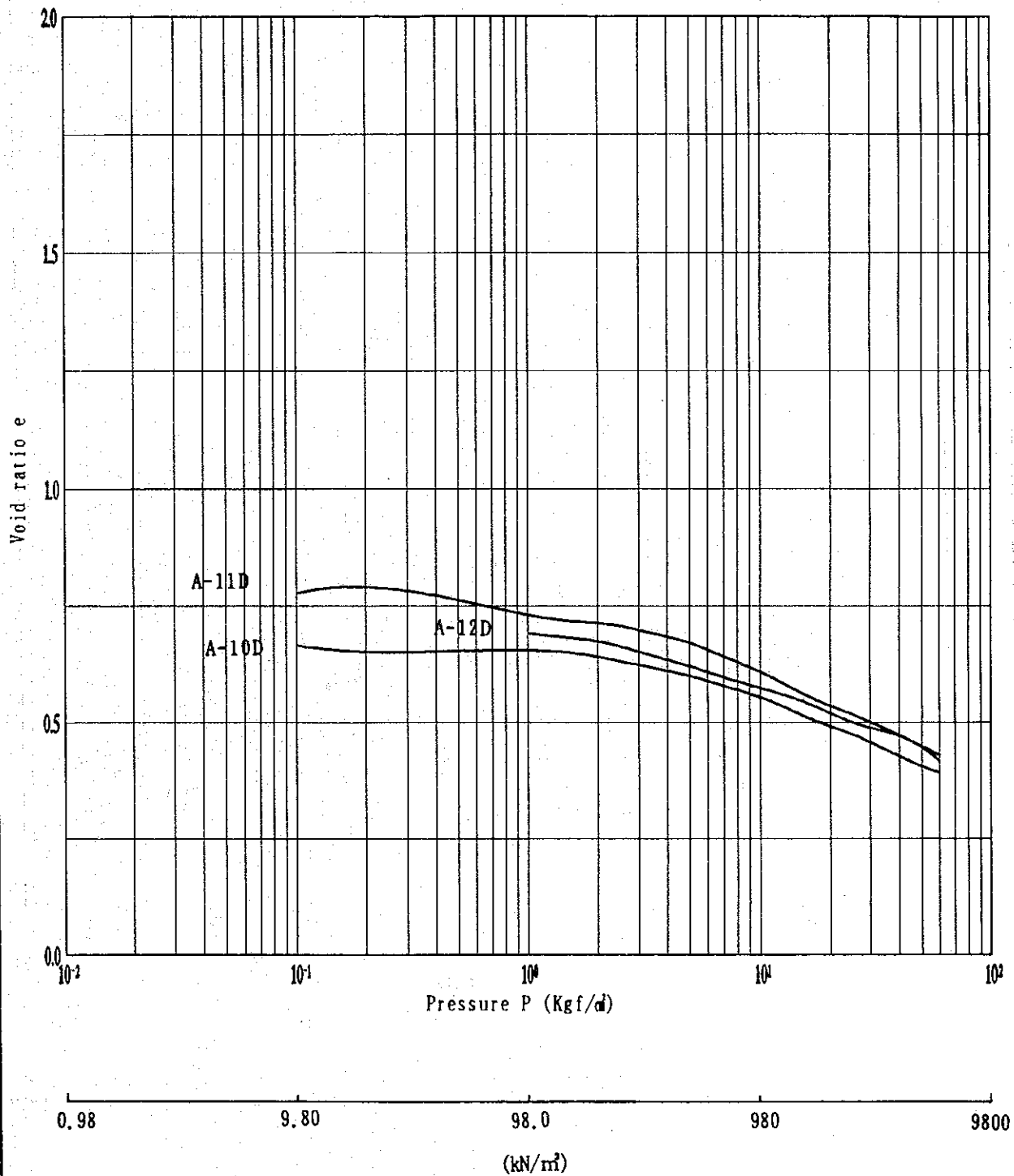
Grain Size Distribution Curves at Site-A [Tb & Pn]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



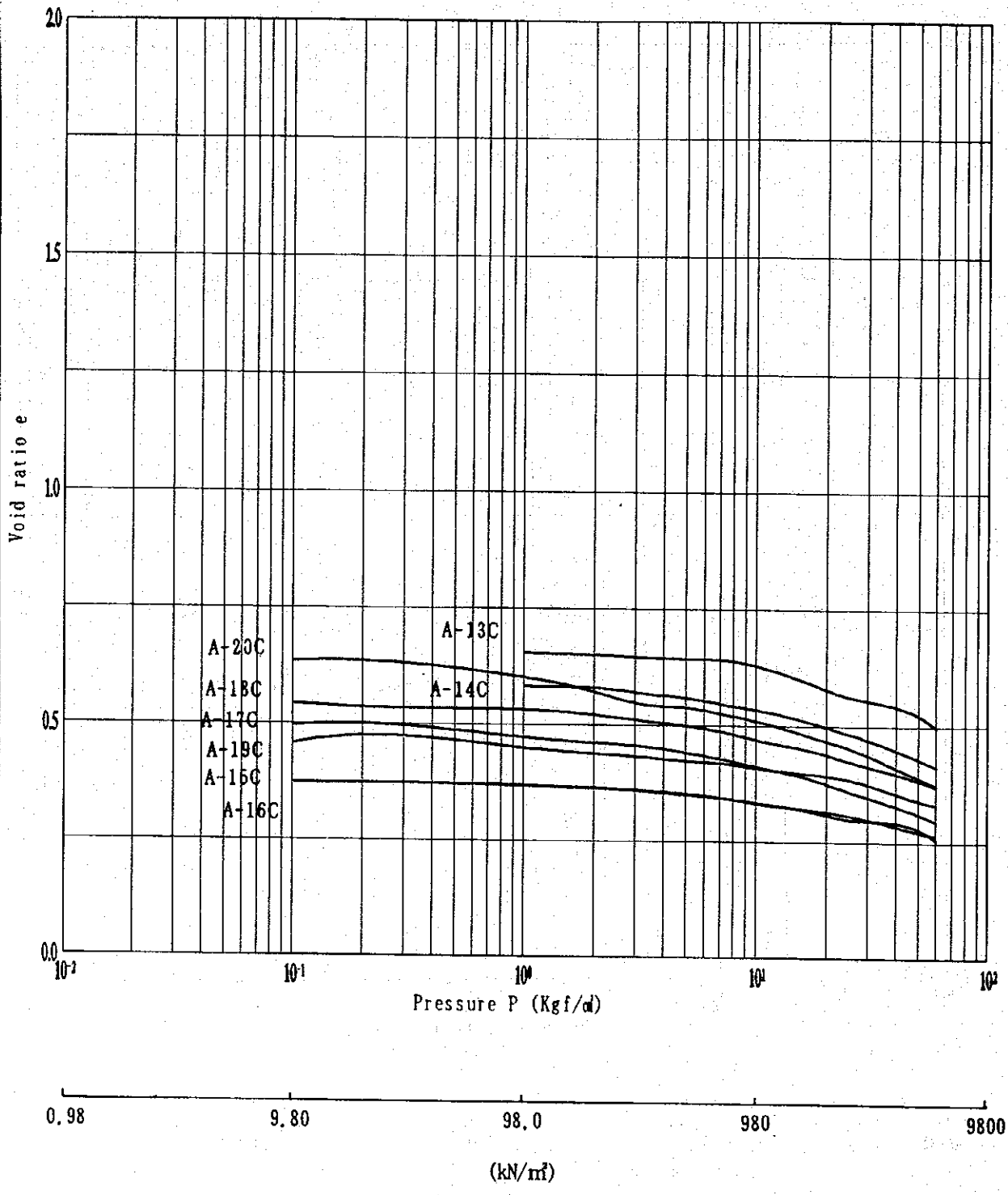
$e \sim \log P$ Curve at Site-A
[Sf]

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



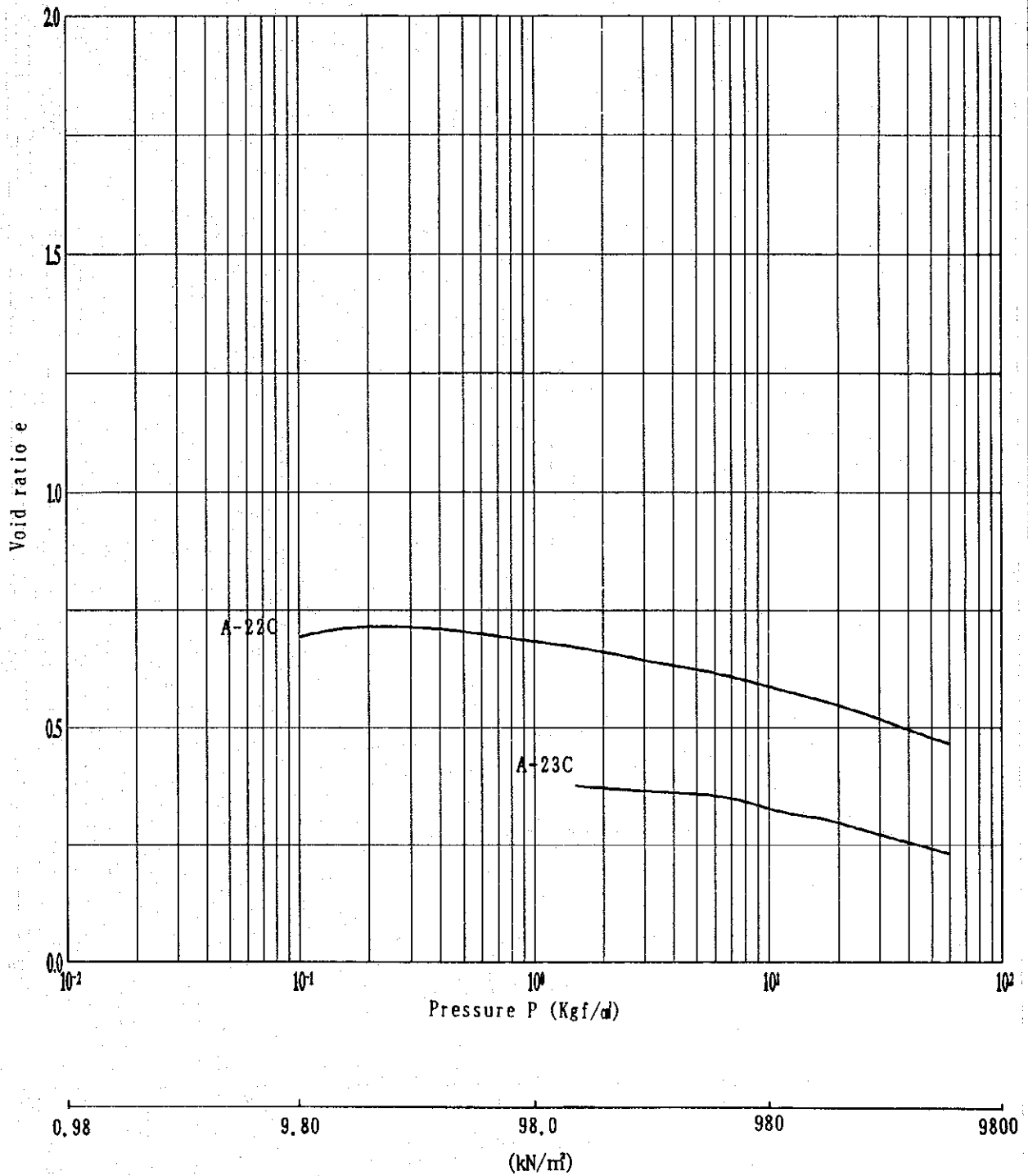
e ~ log P Curve at Site-A	
[Bk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE	
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



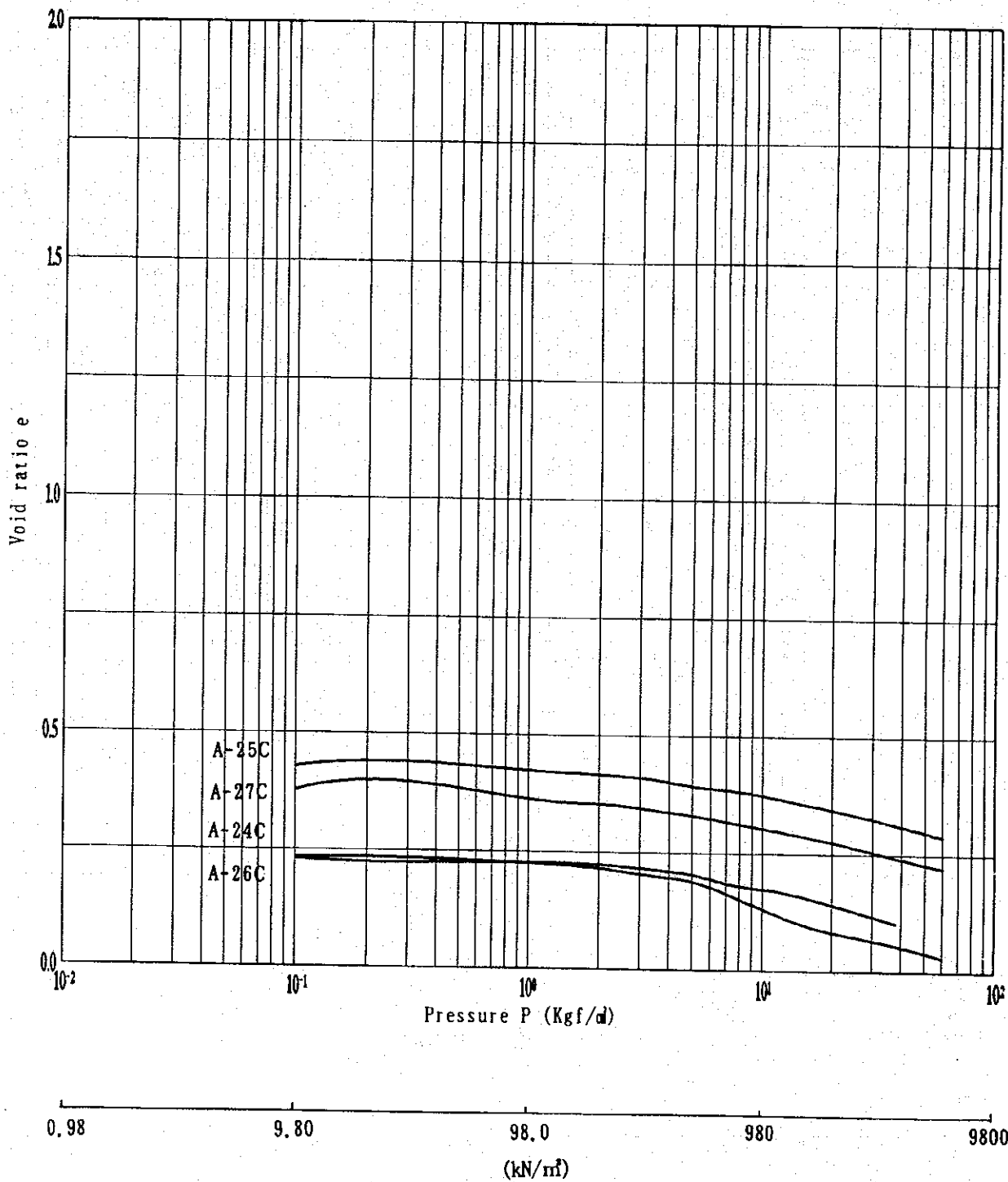
e ~ logP Curve at Site-A
[Pd]

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

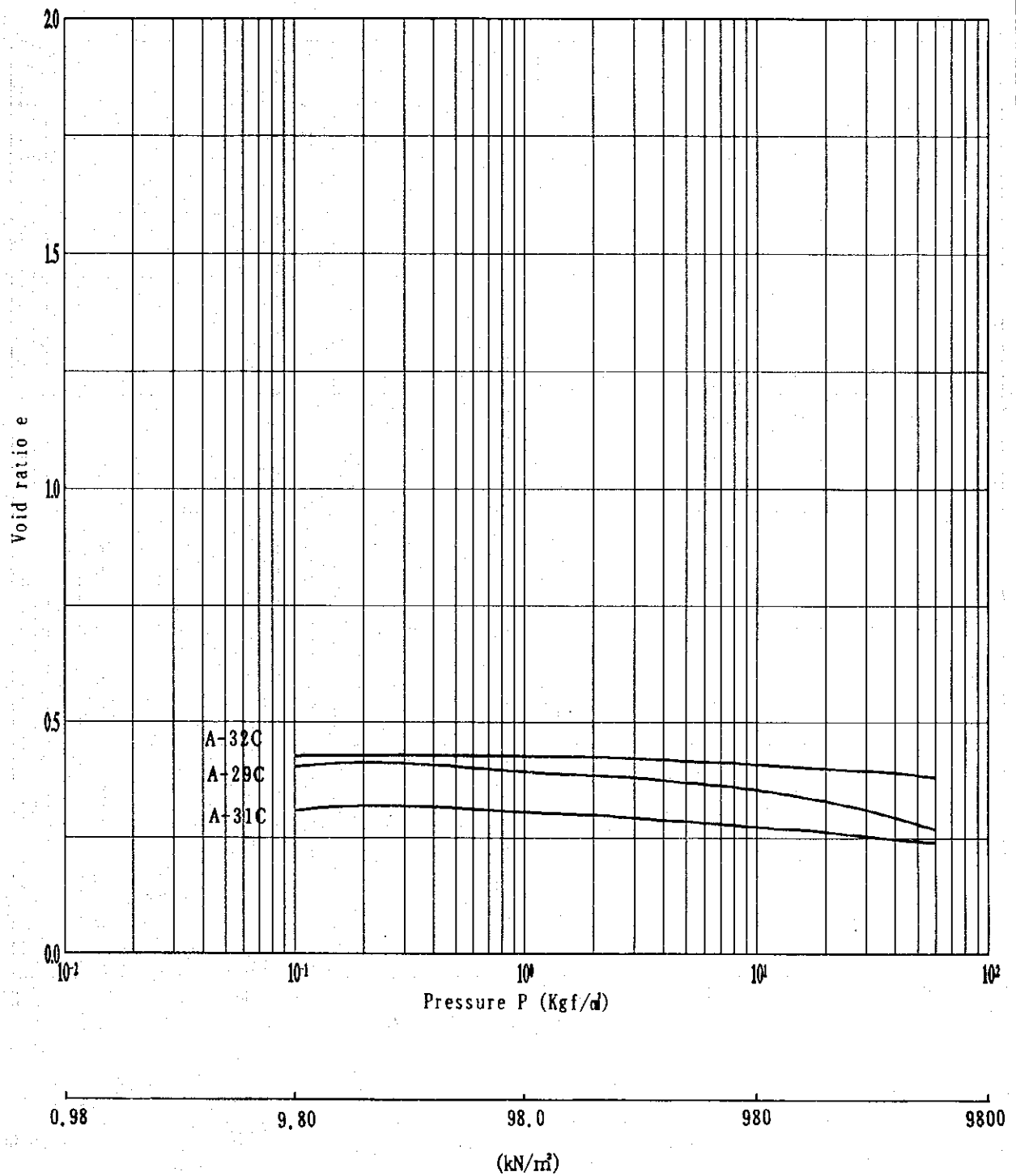
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



e ~ log P Curve at Site-A [N1]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

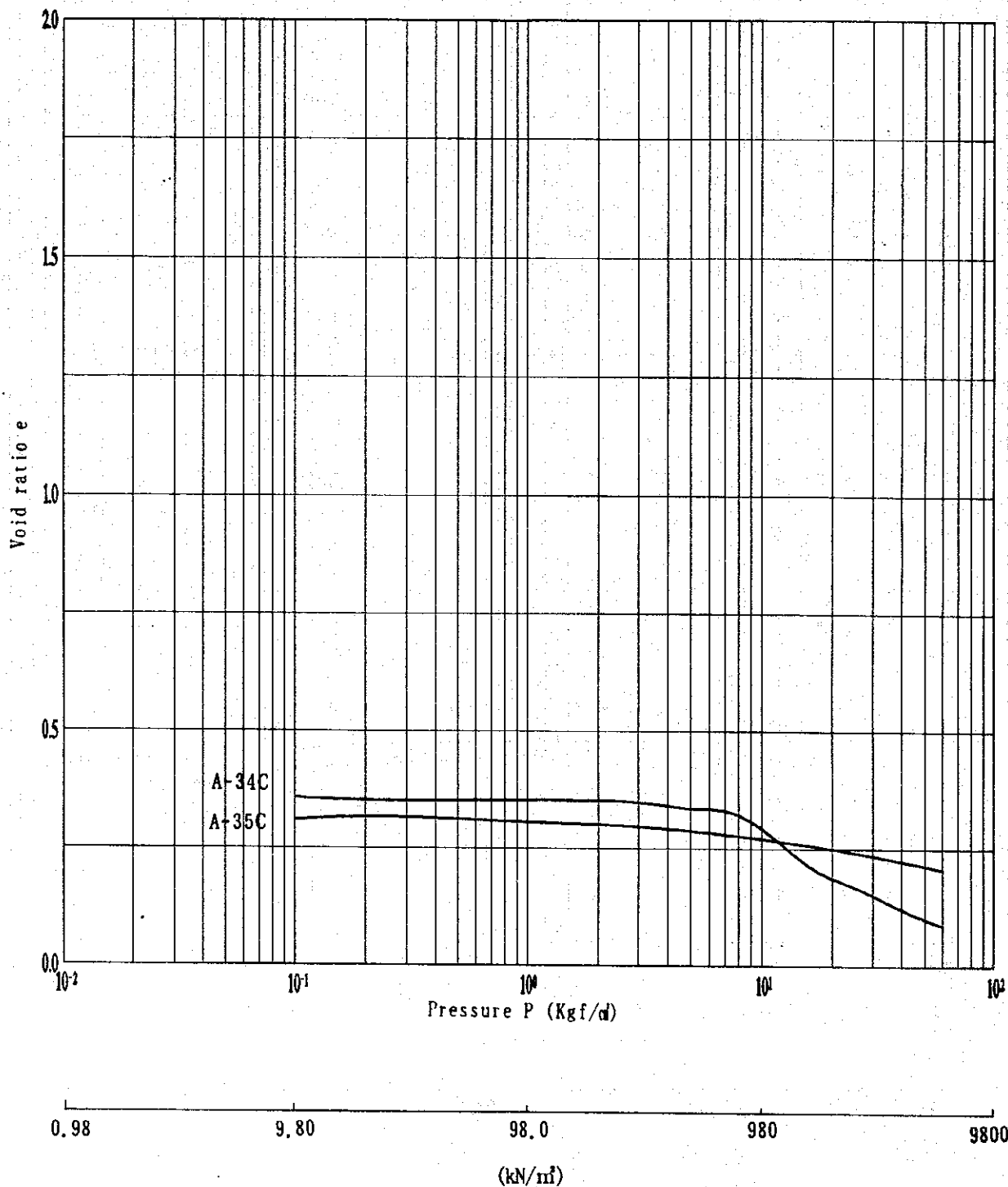


e ~ log P Curve at Site-A	
[Nb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE	
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

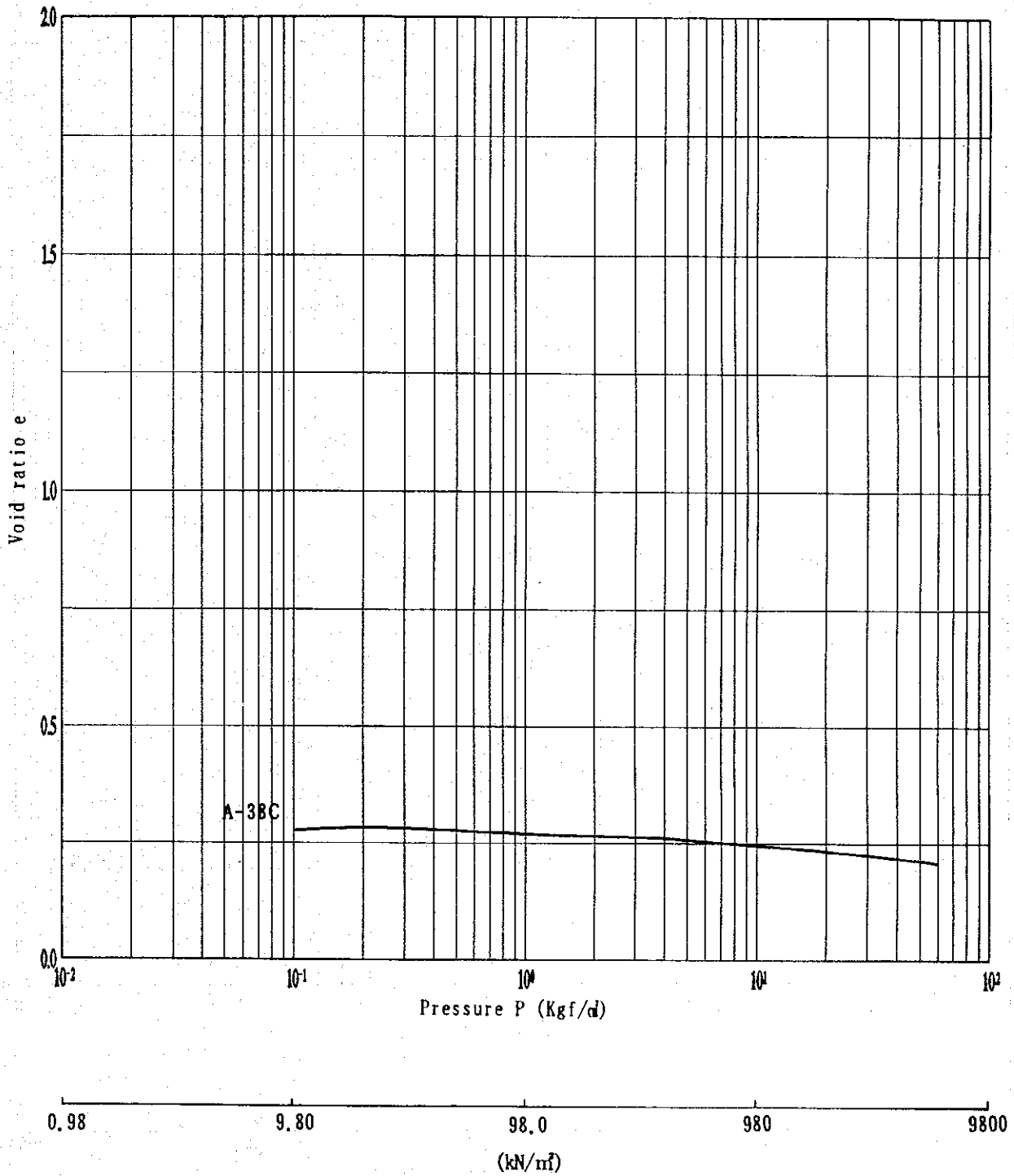


e ~ logP Curve at Site-A
[Sk]

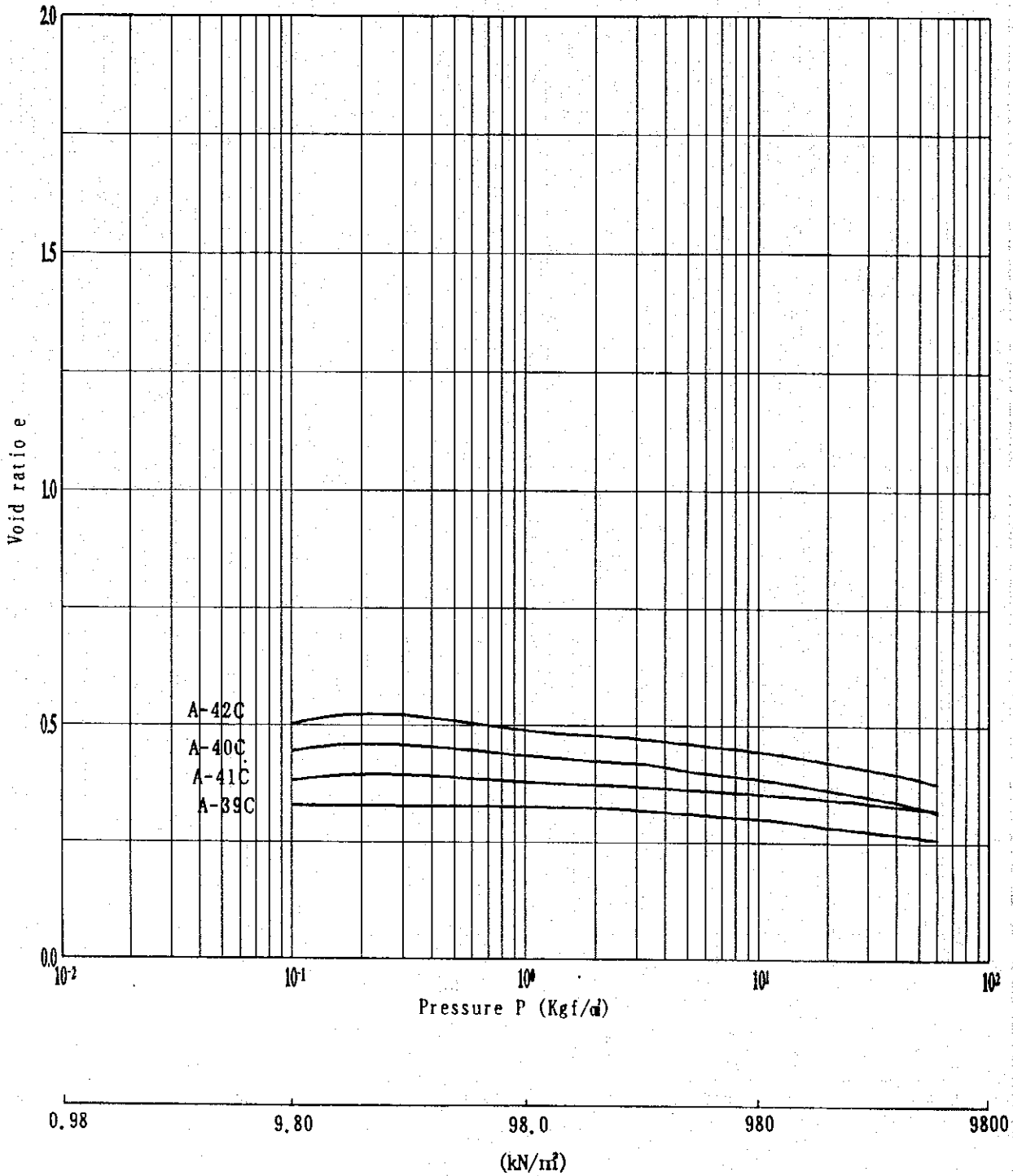
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



e ~ log P Curve at Site-A [Pt]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

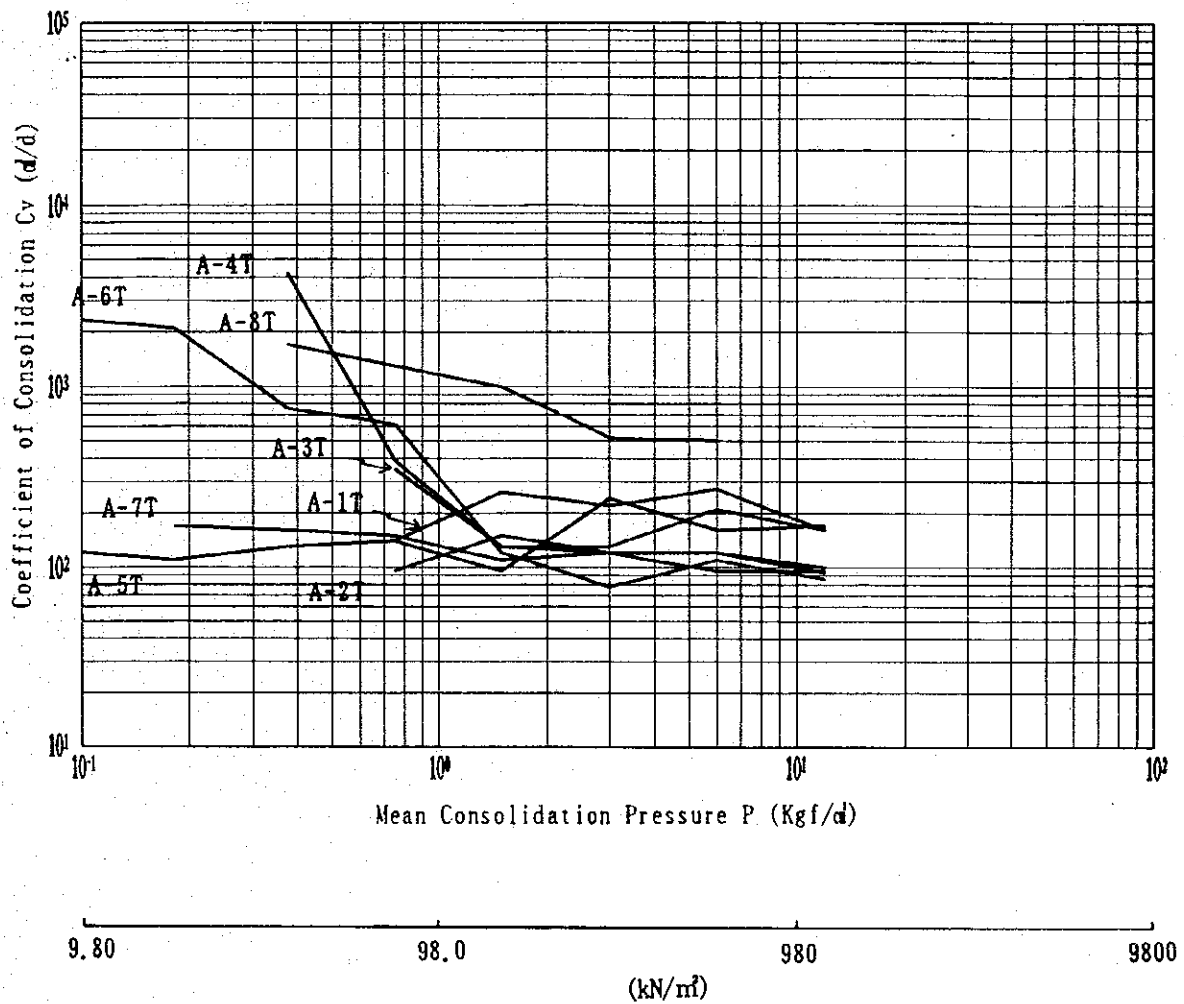


e ~ log P Curve at Site-A	
[Tb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE	
IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD

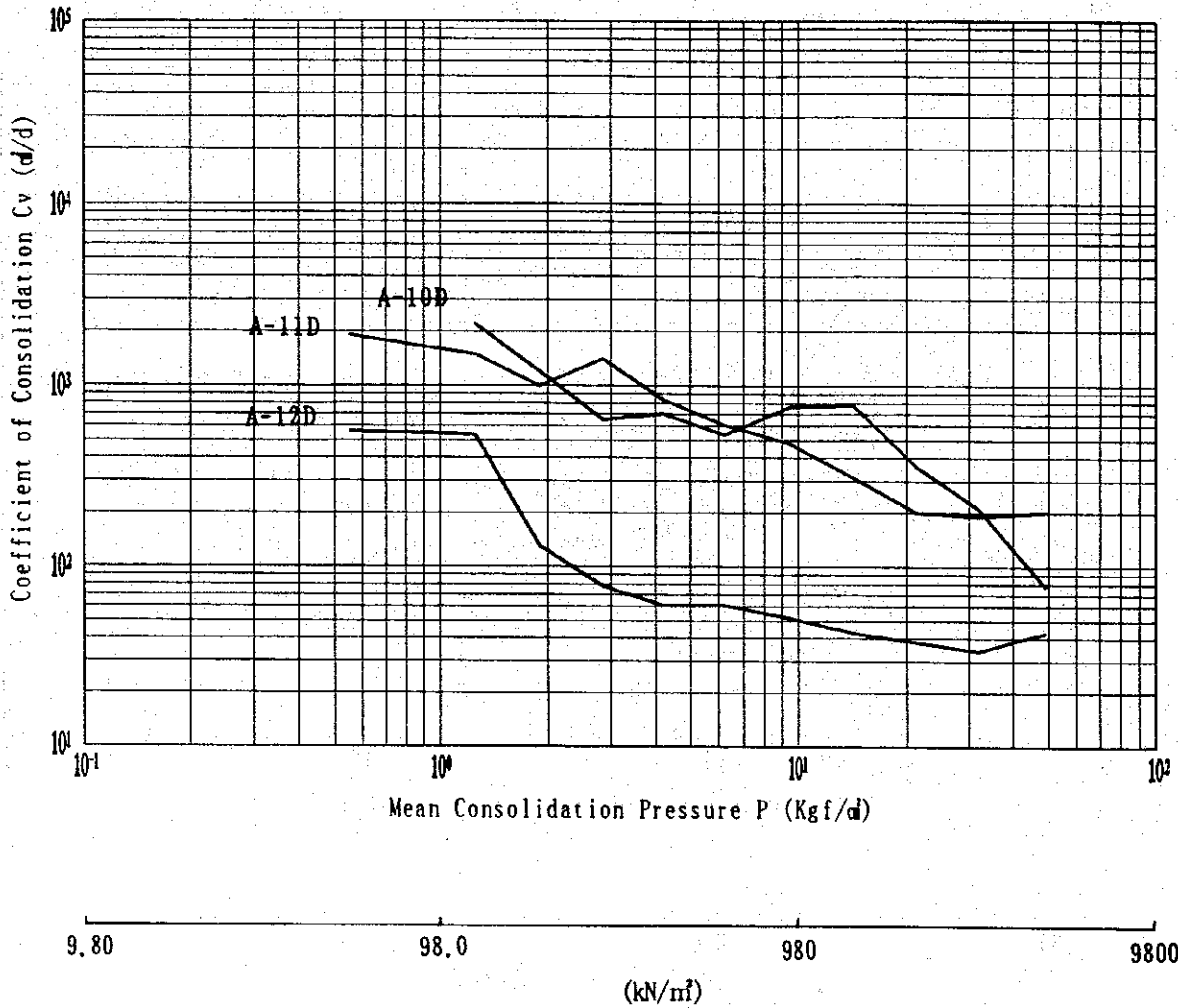


e ~ log P Curve at Site-A
[Pn]

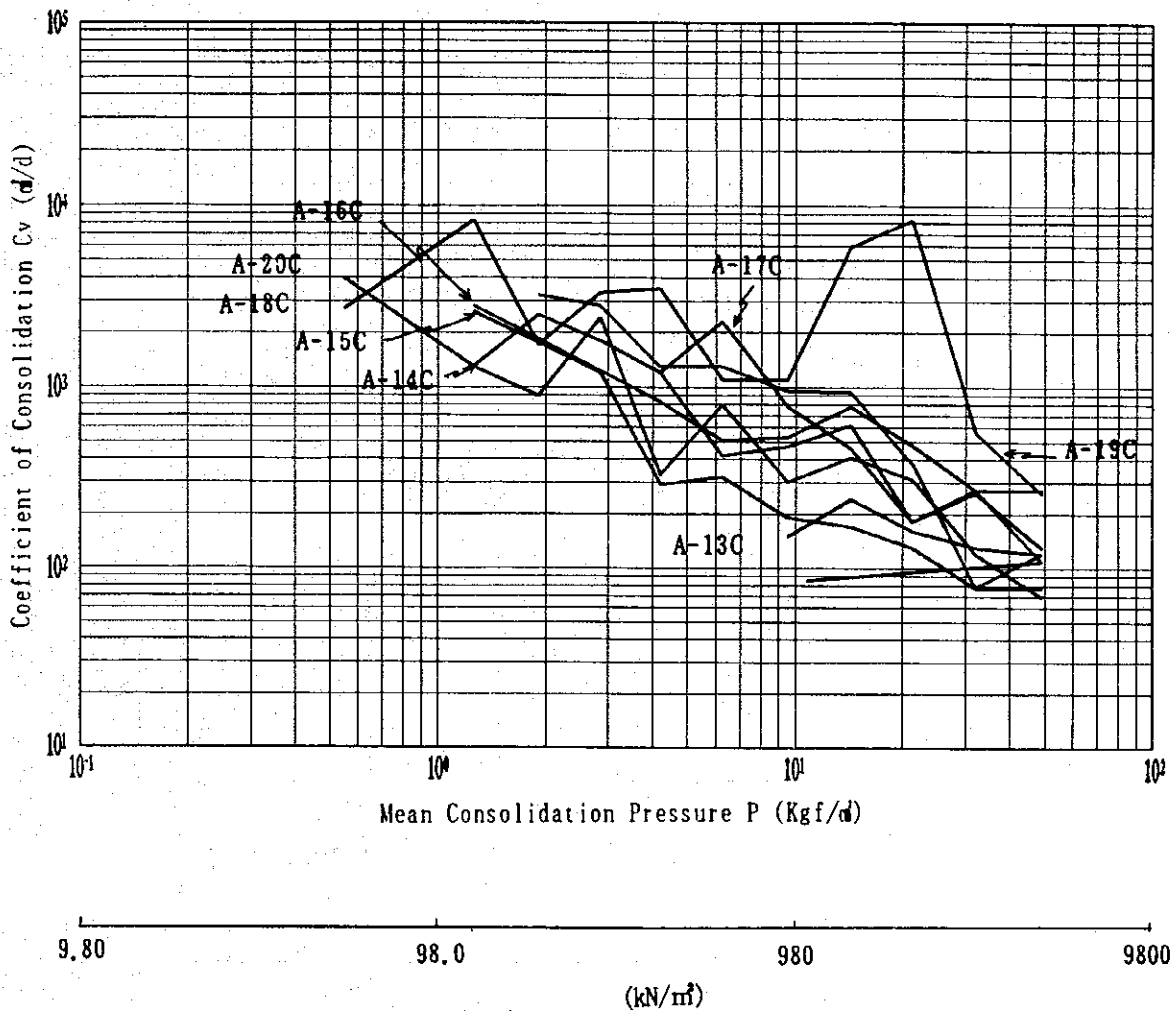
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



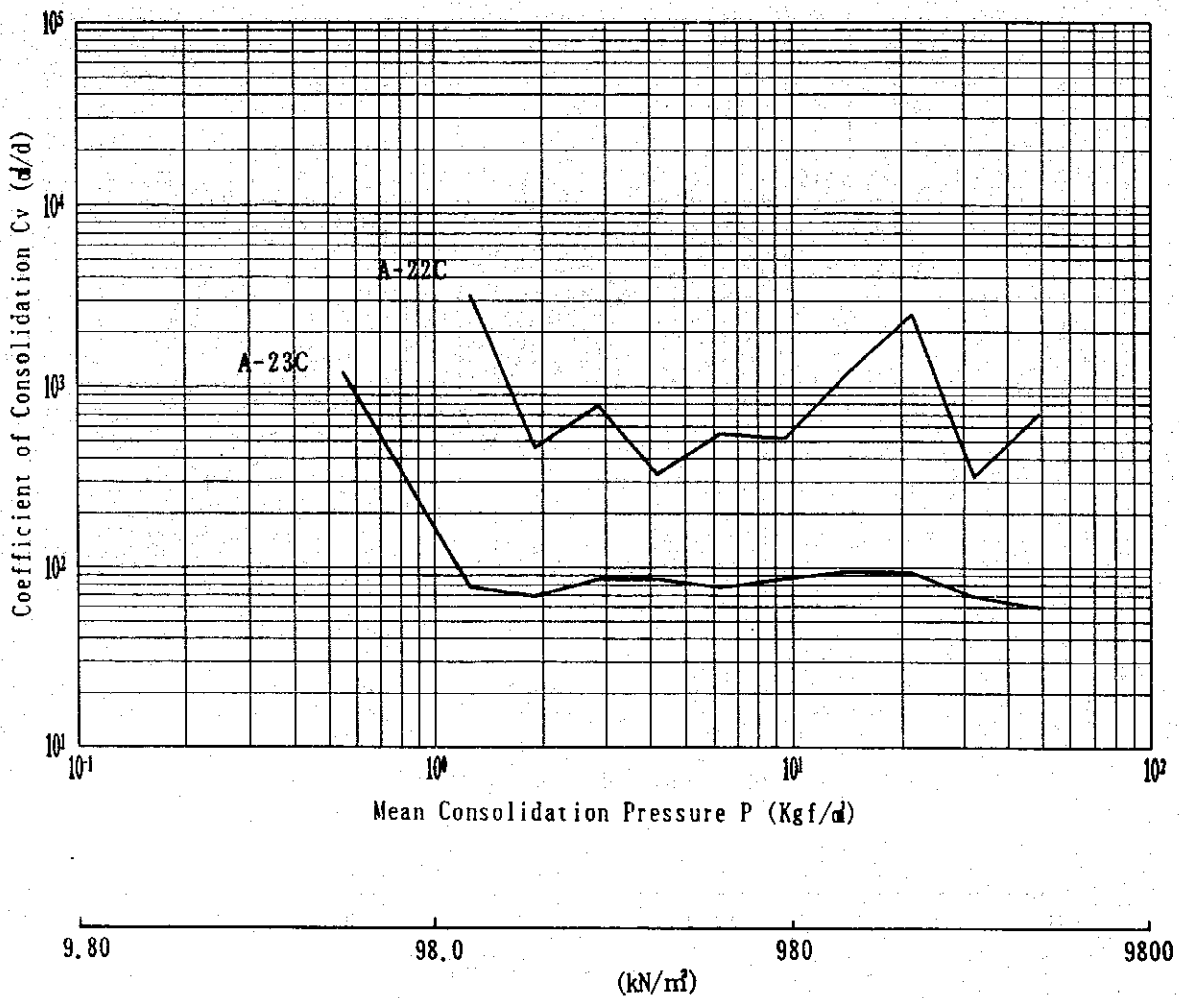
Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Sf]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



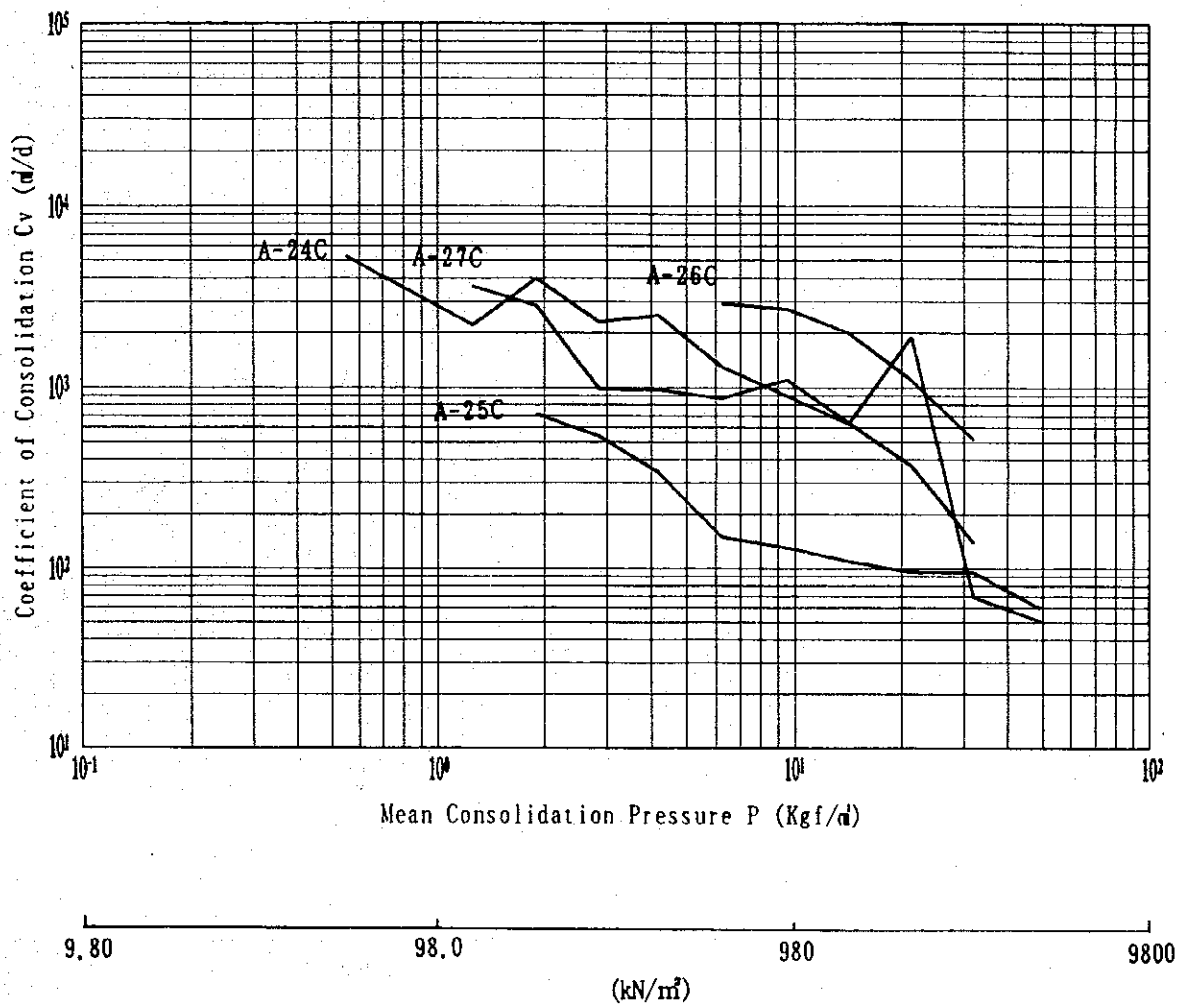
Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Bk]
 THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



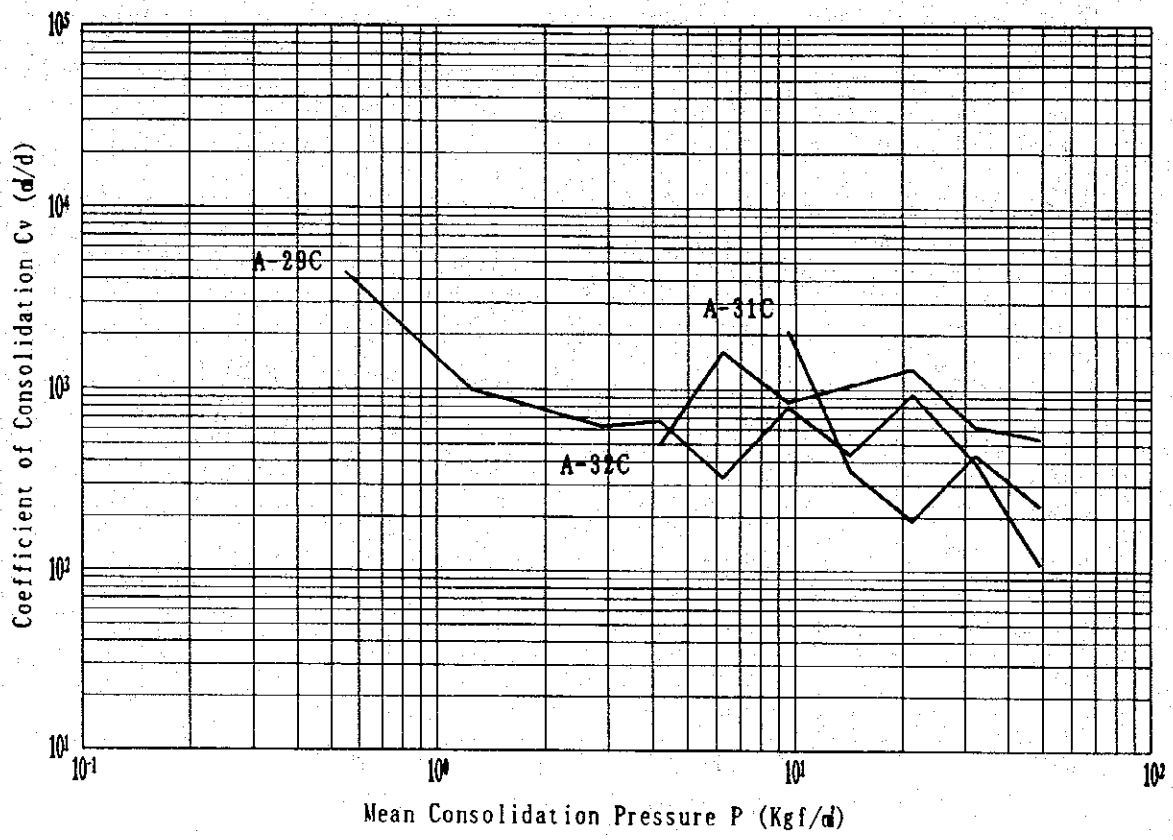
	Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Pd]
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



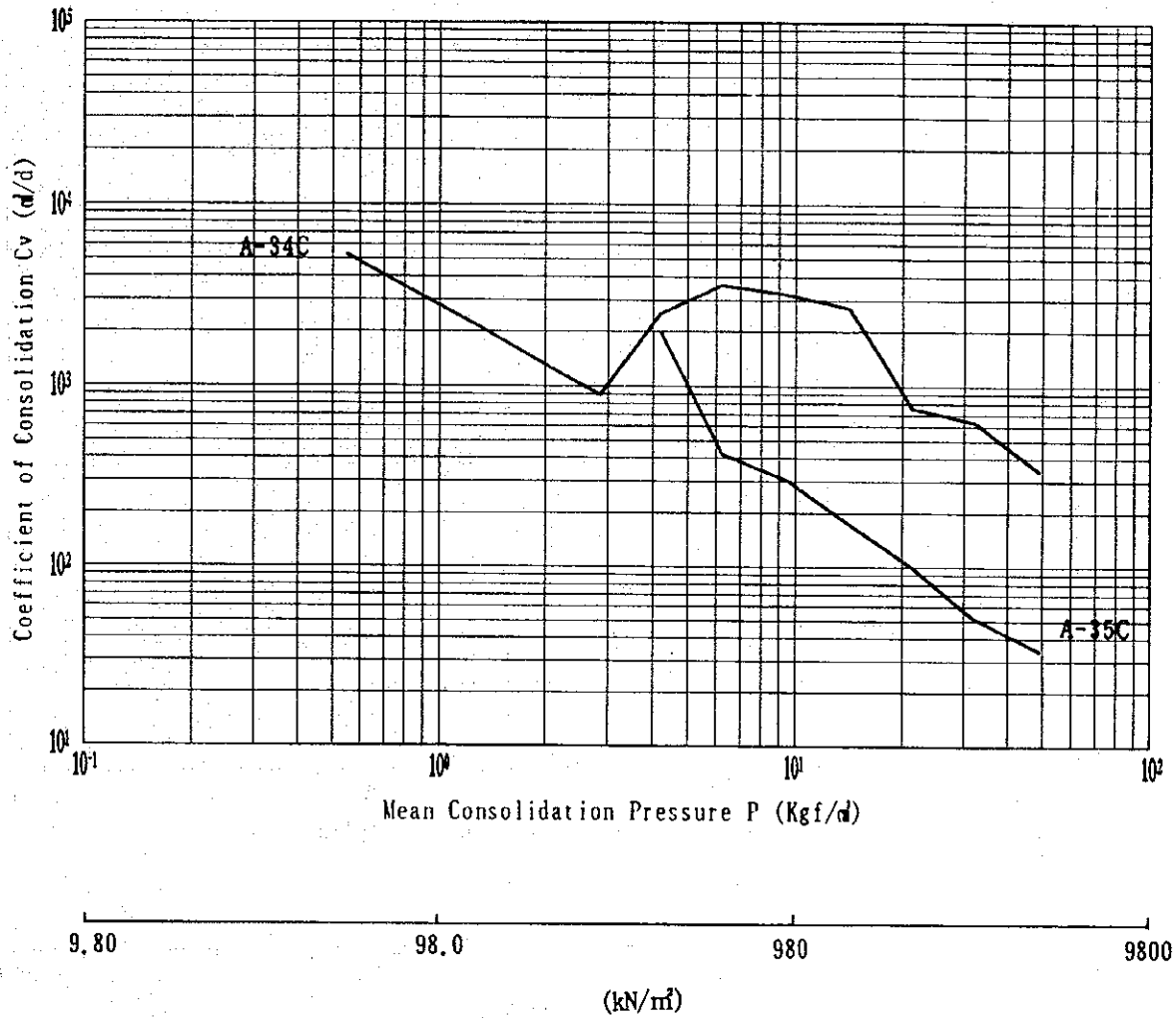
Coefficient of Consolidation, Cv versus Pressure Curves at Site-A [NI]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



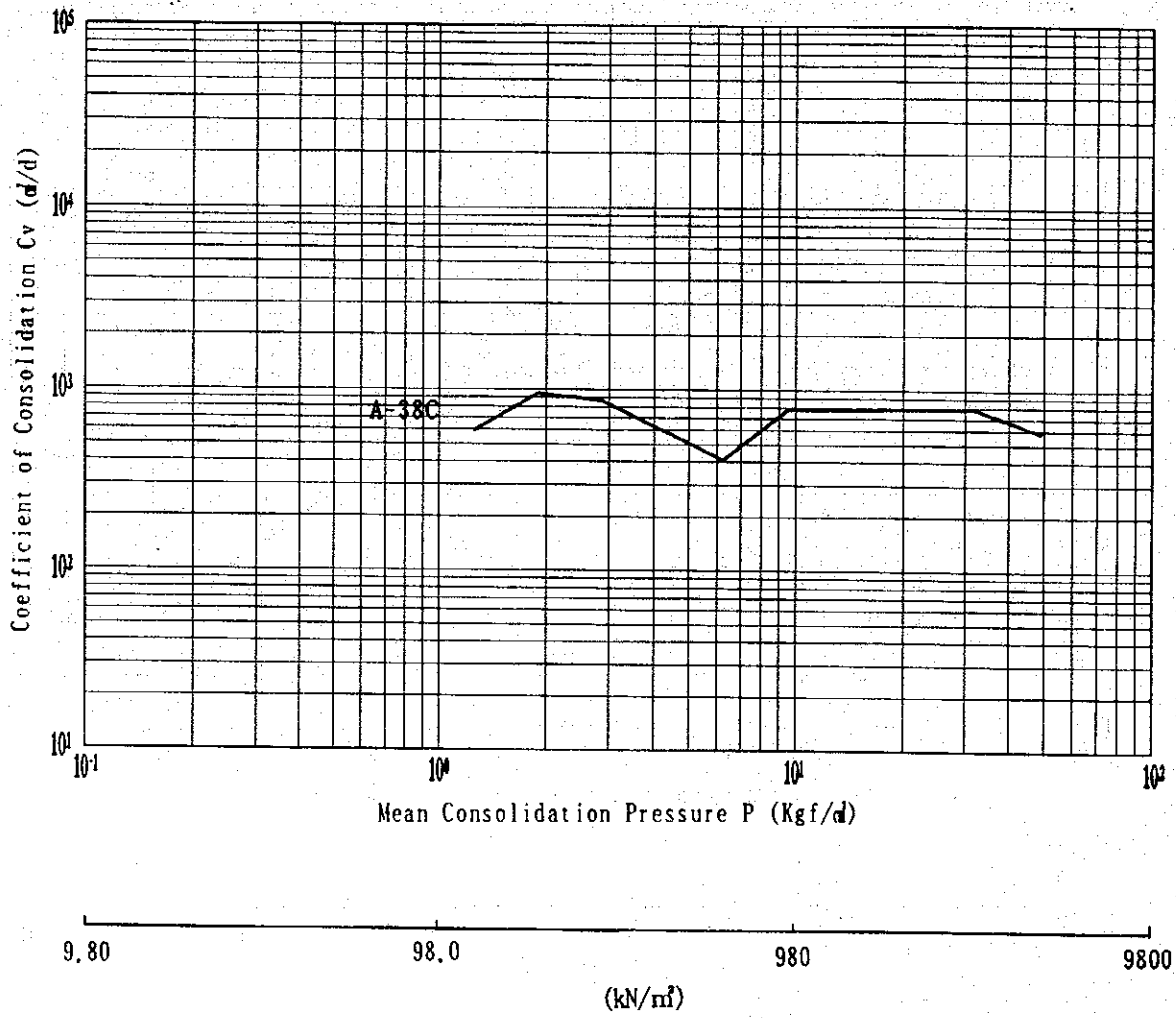
	Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Nb]
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



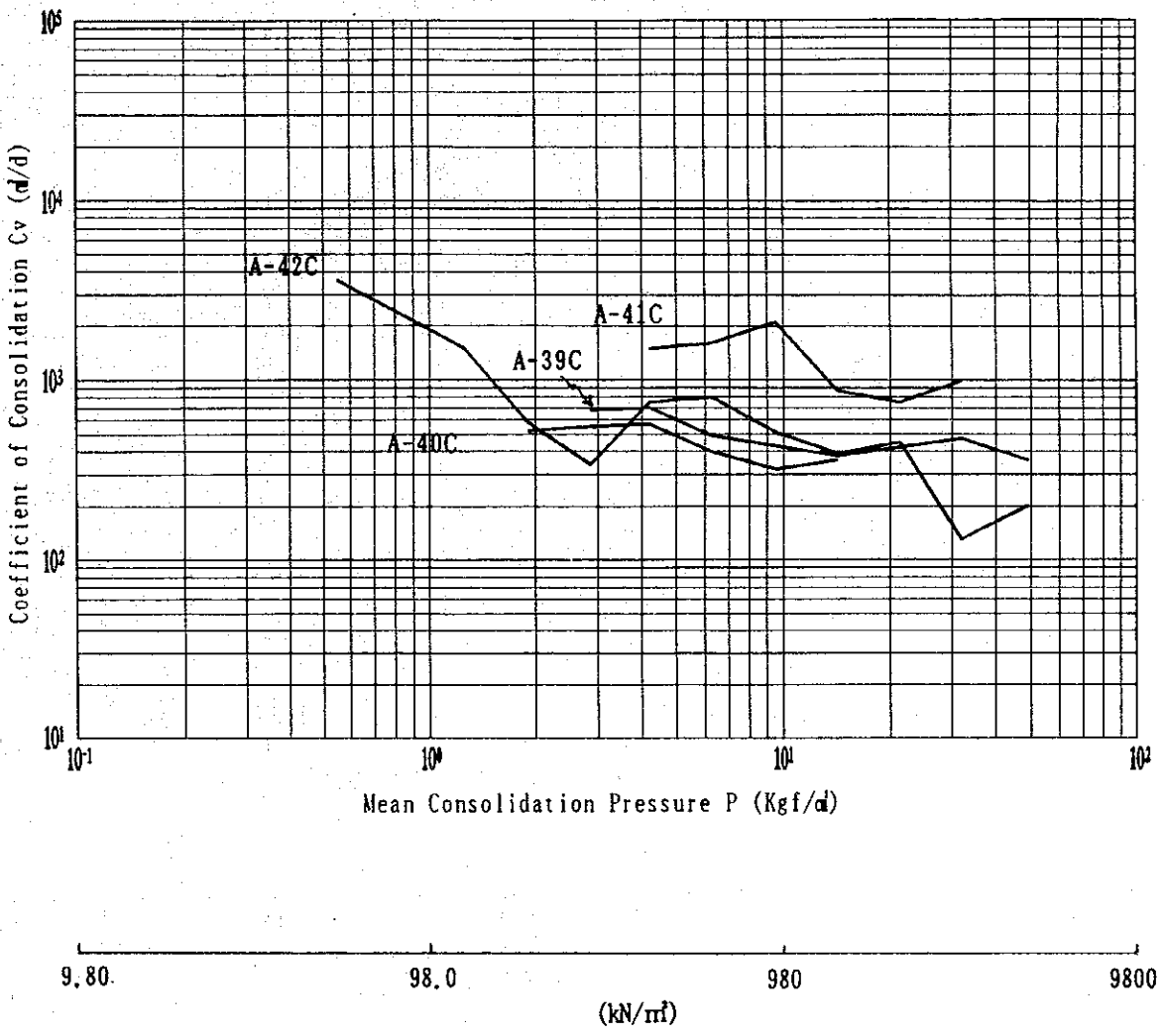
Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Sk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



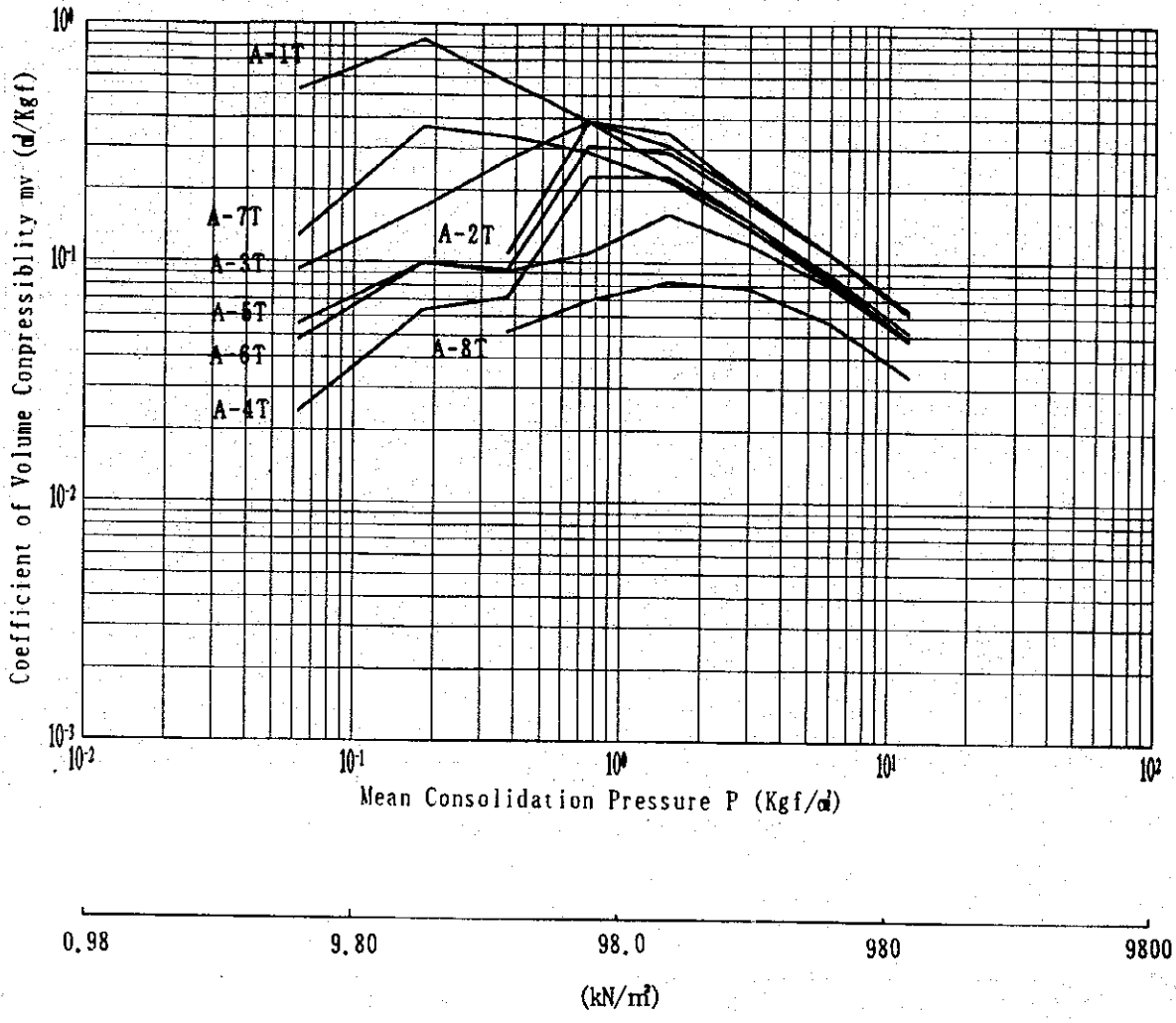
Coefficient of Consolidation, Cv versus Pressure Curves at Site-A [Pt]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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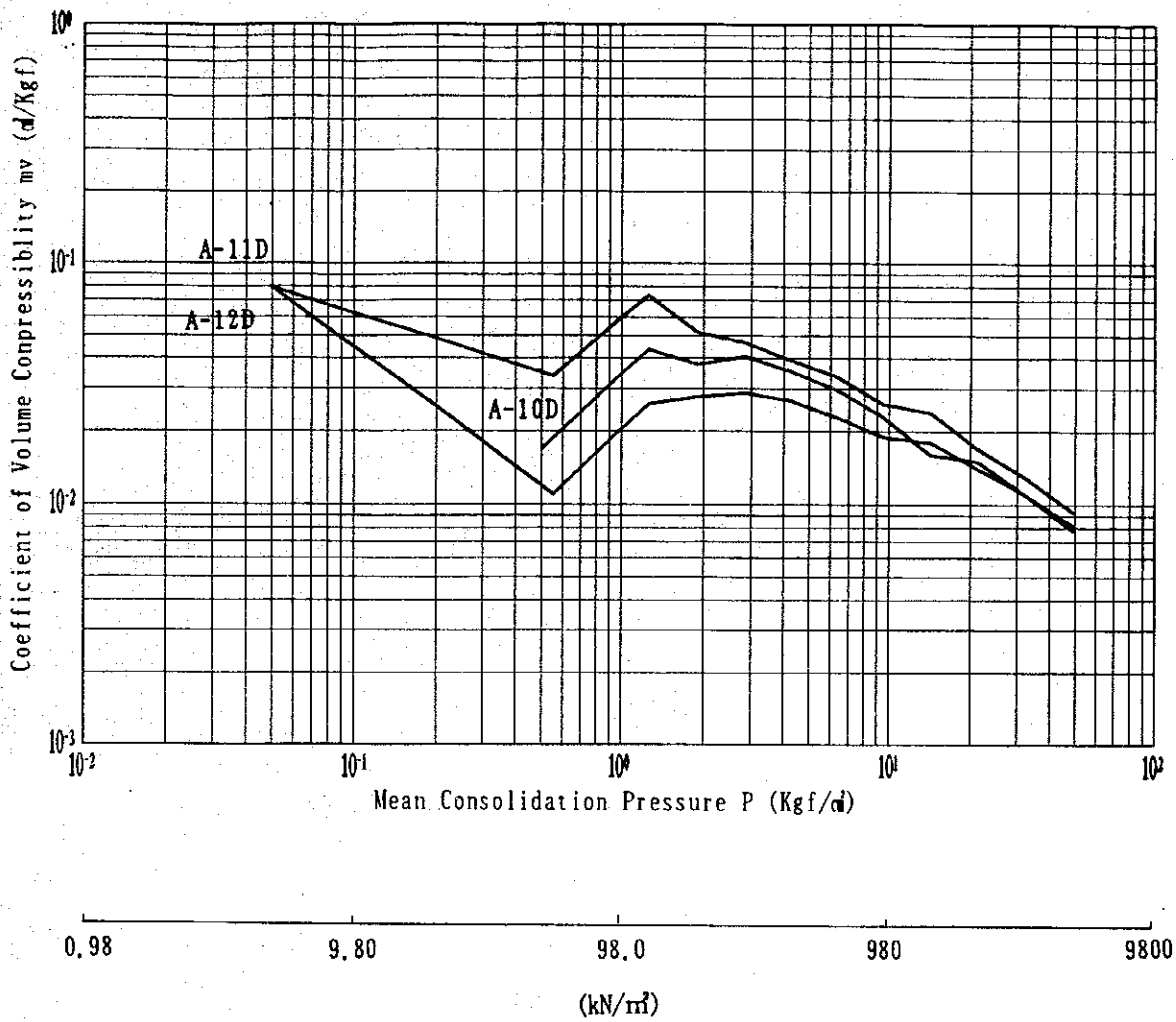
Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [Tb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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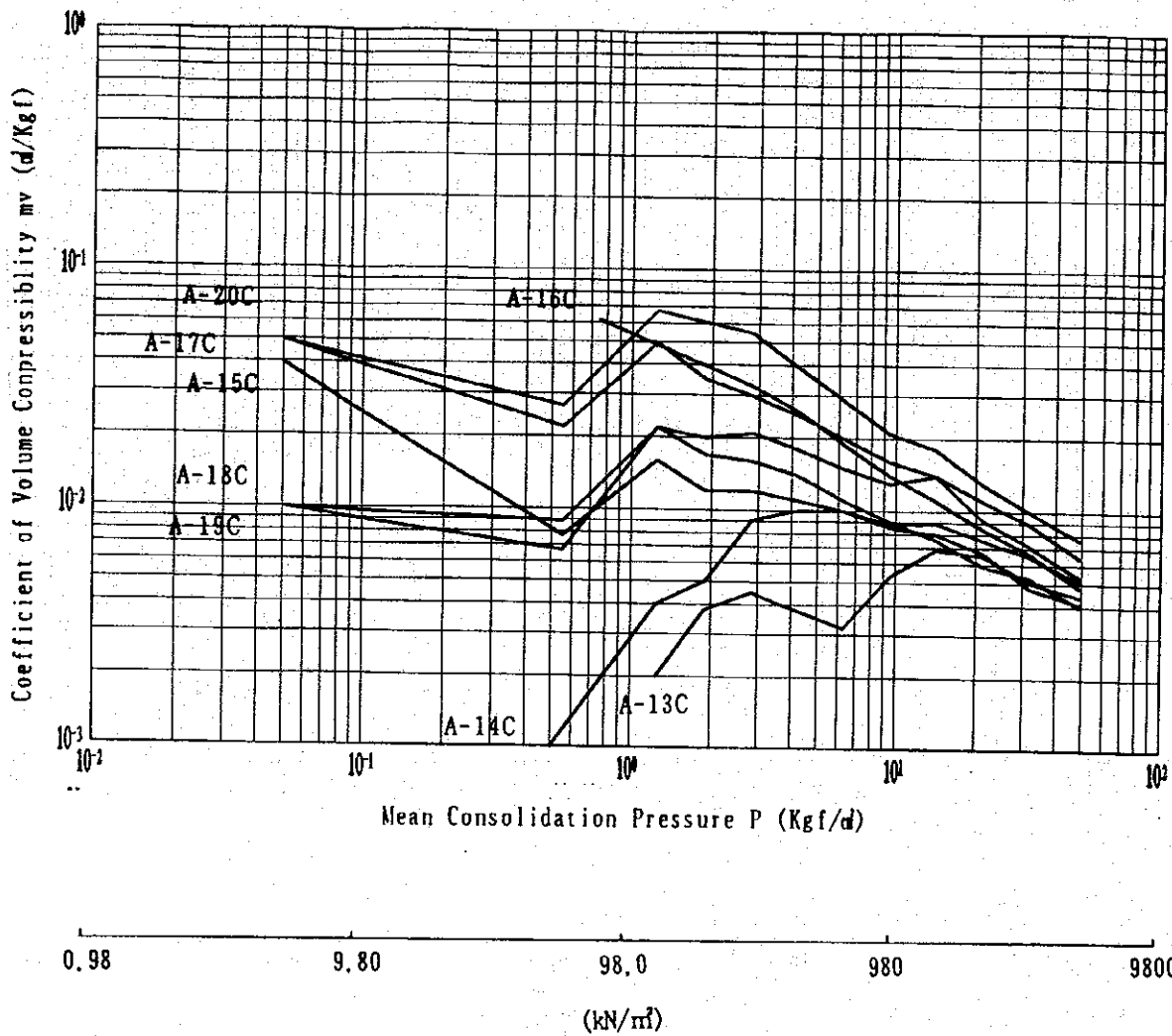
Coefficient of Consolidation, C_v versus Pressure Curves at Site-A [P_n]
 THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



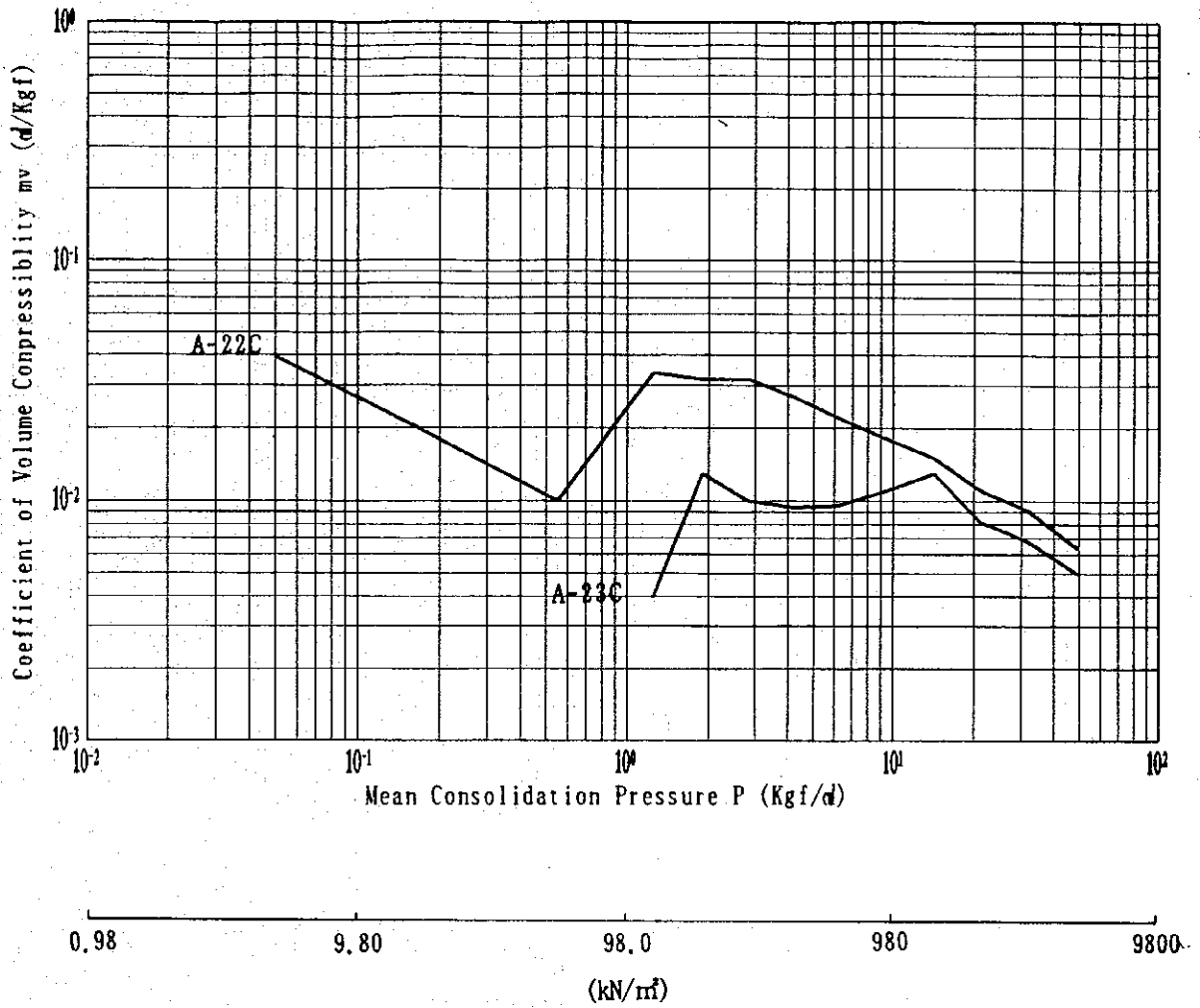
	Coefficient of Volume Compressibility, m_v versus Pressure Curves at Site-A [Sf]
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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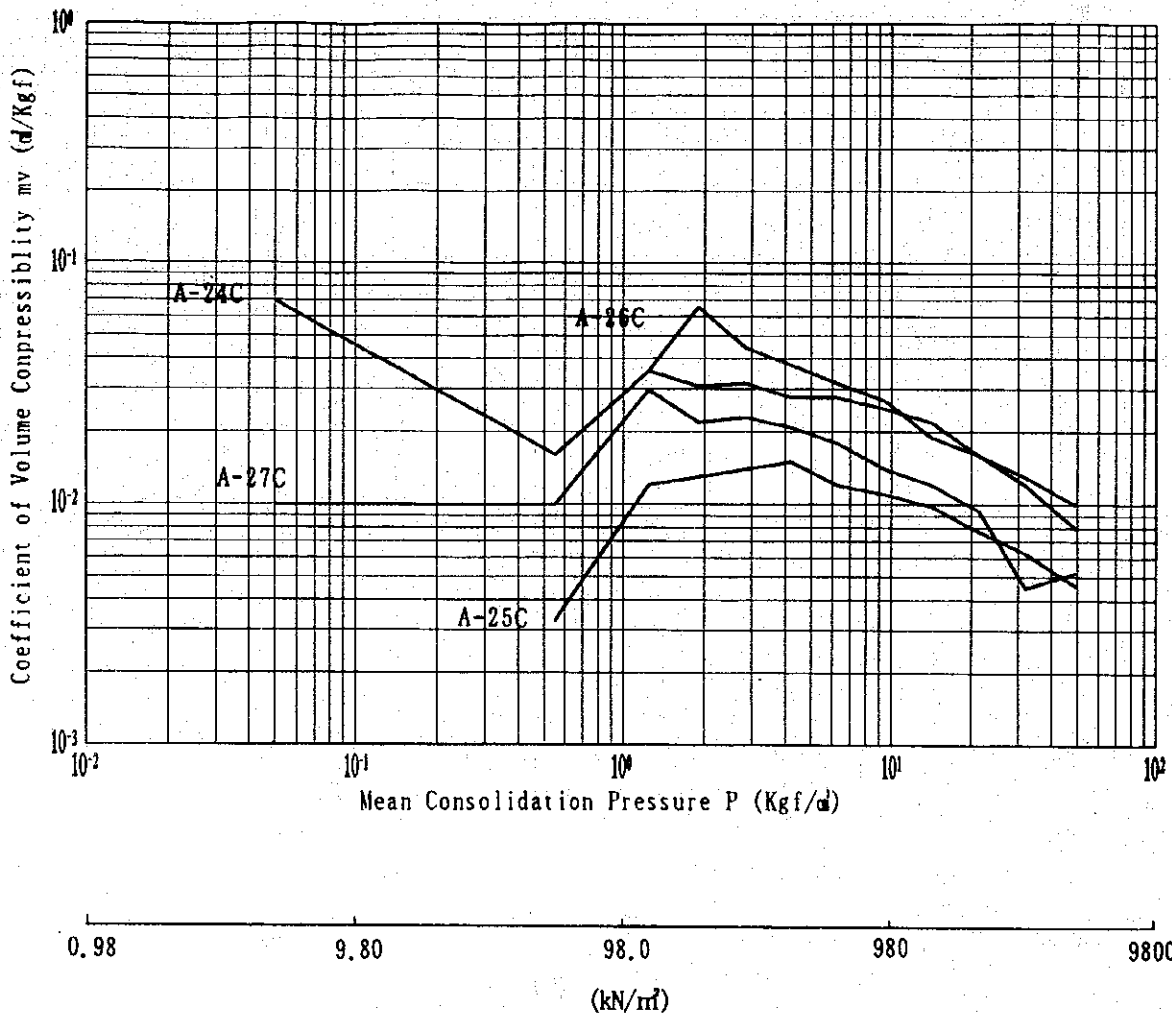
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [Bk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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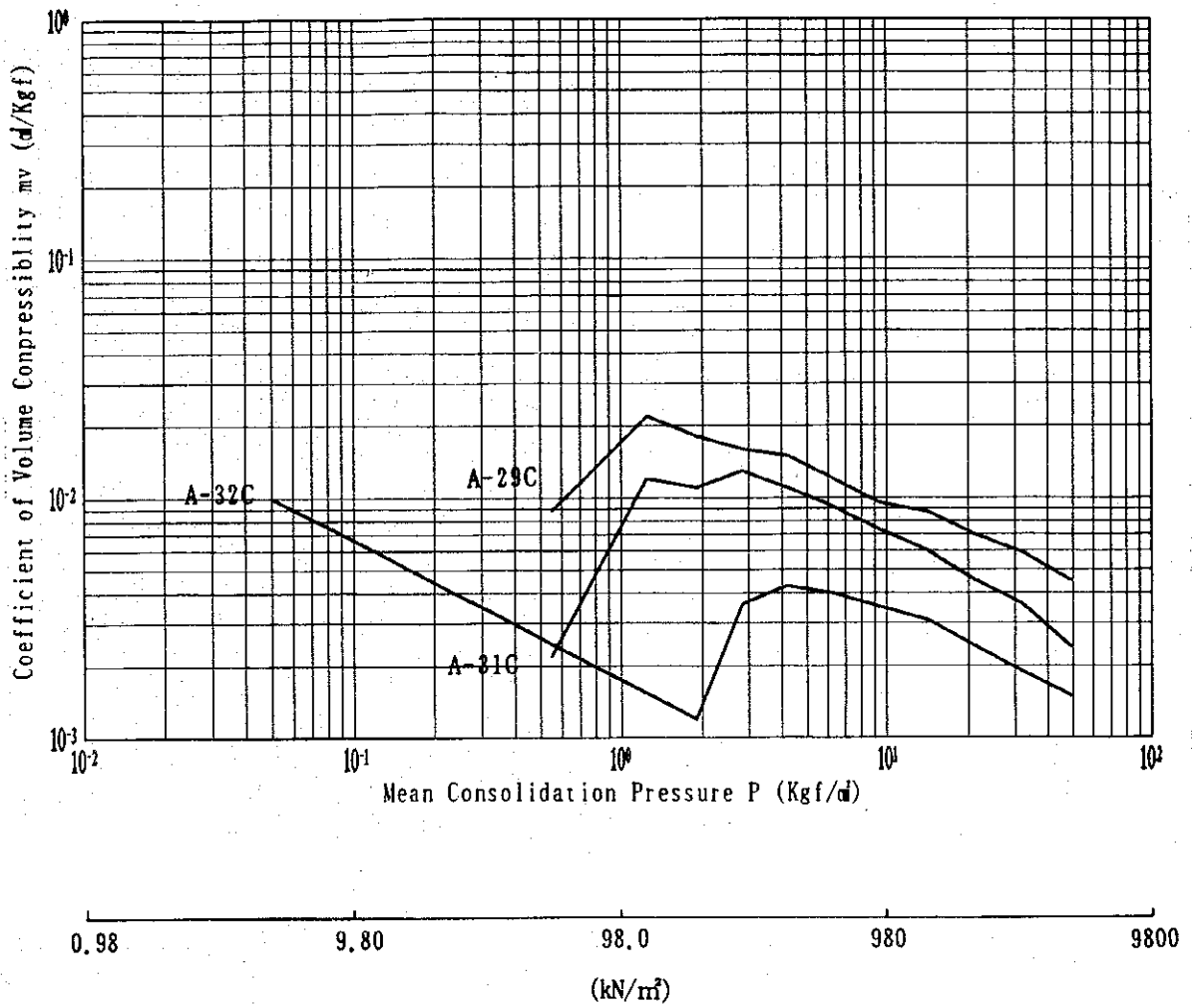
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [Pd]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



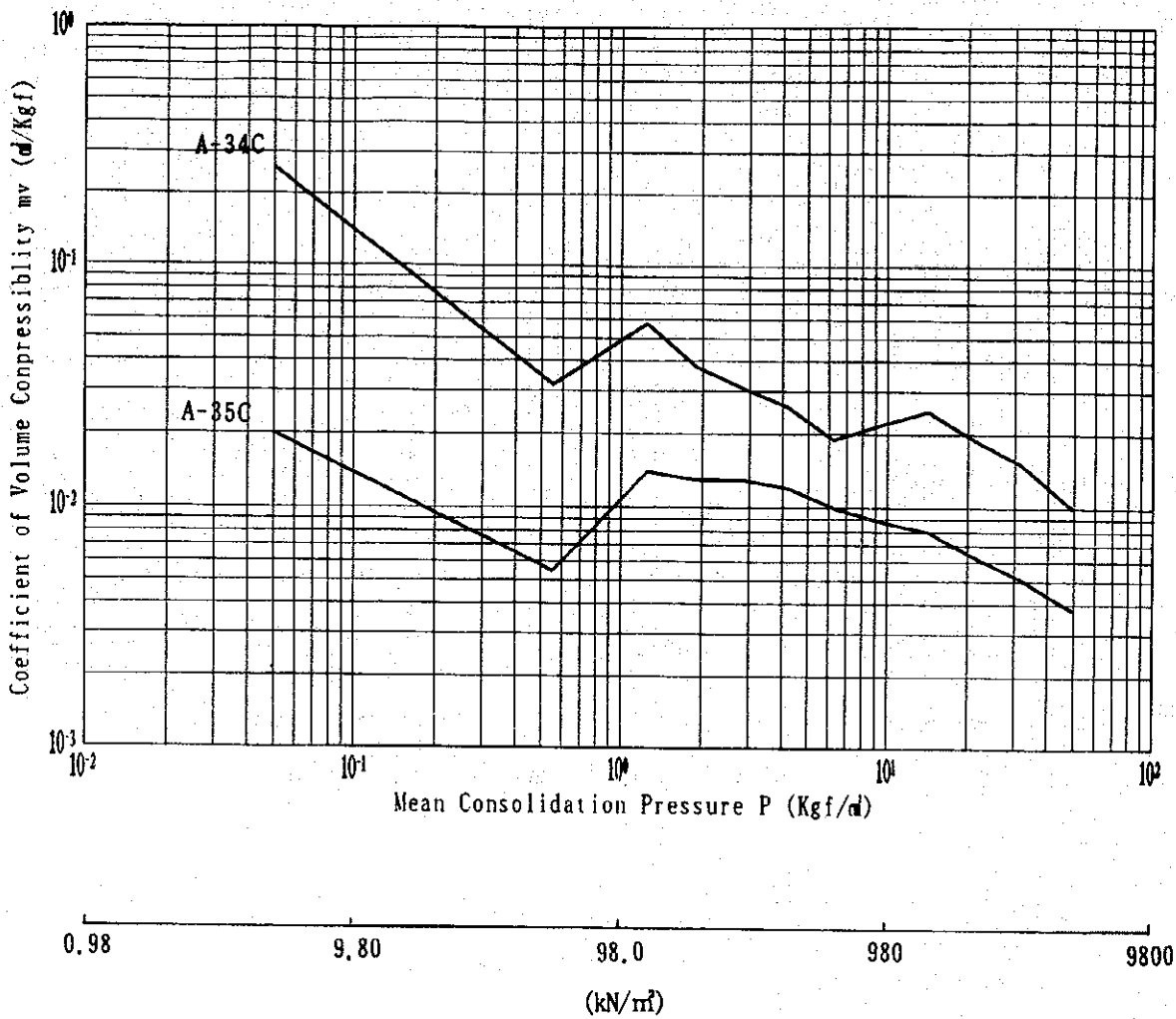
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [NI]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [No.]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	KOKUSAI KOGYO CO., LTD



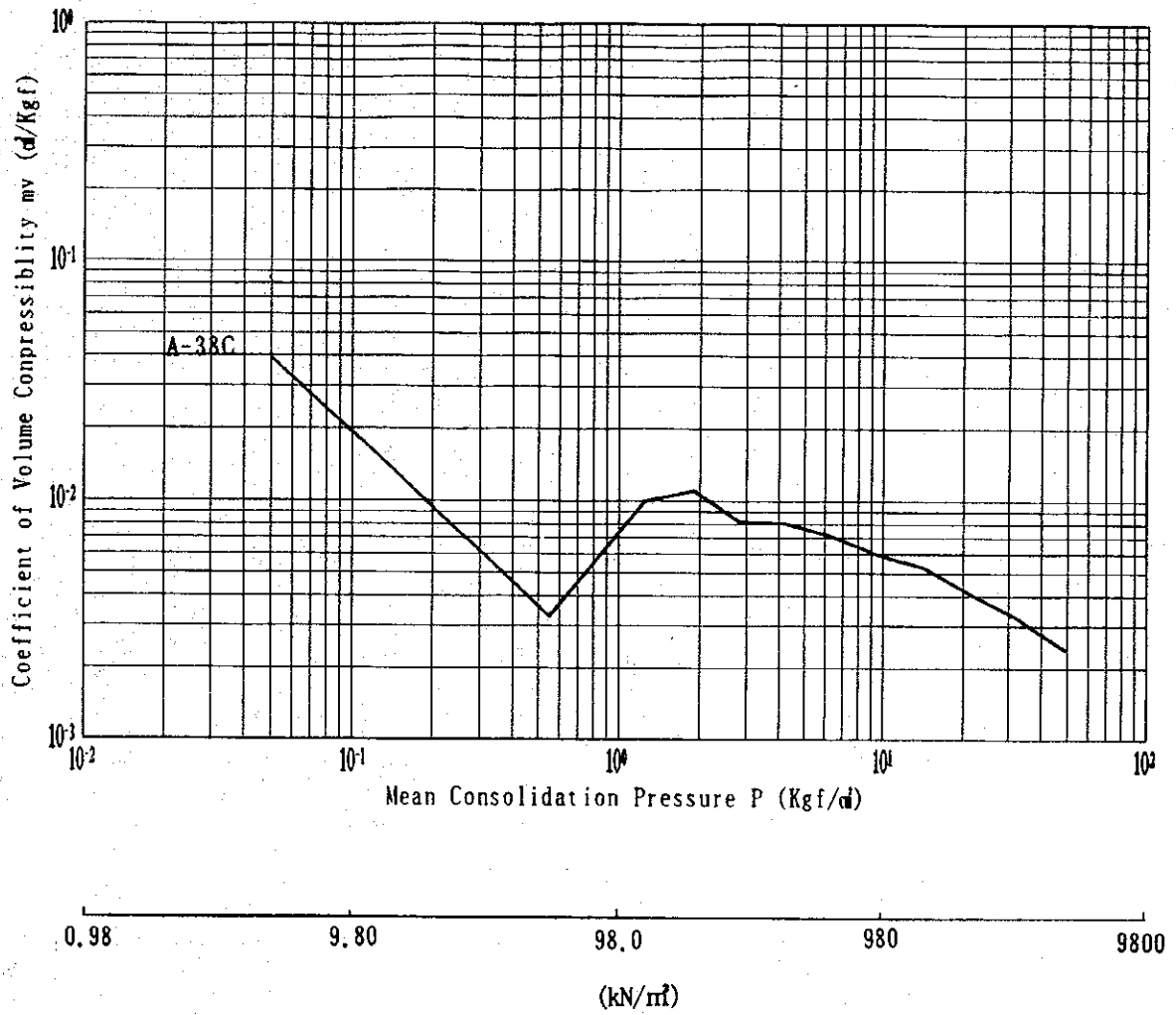
Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [Sk]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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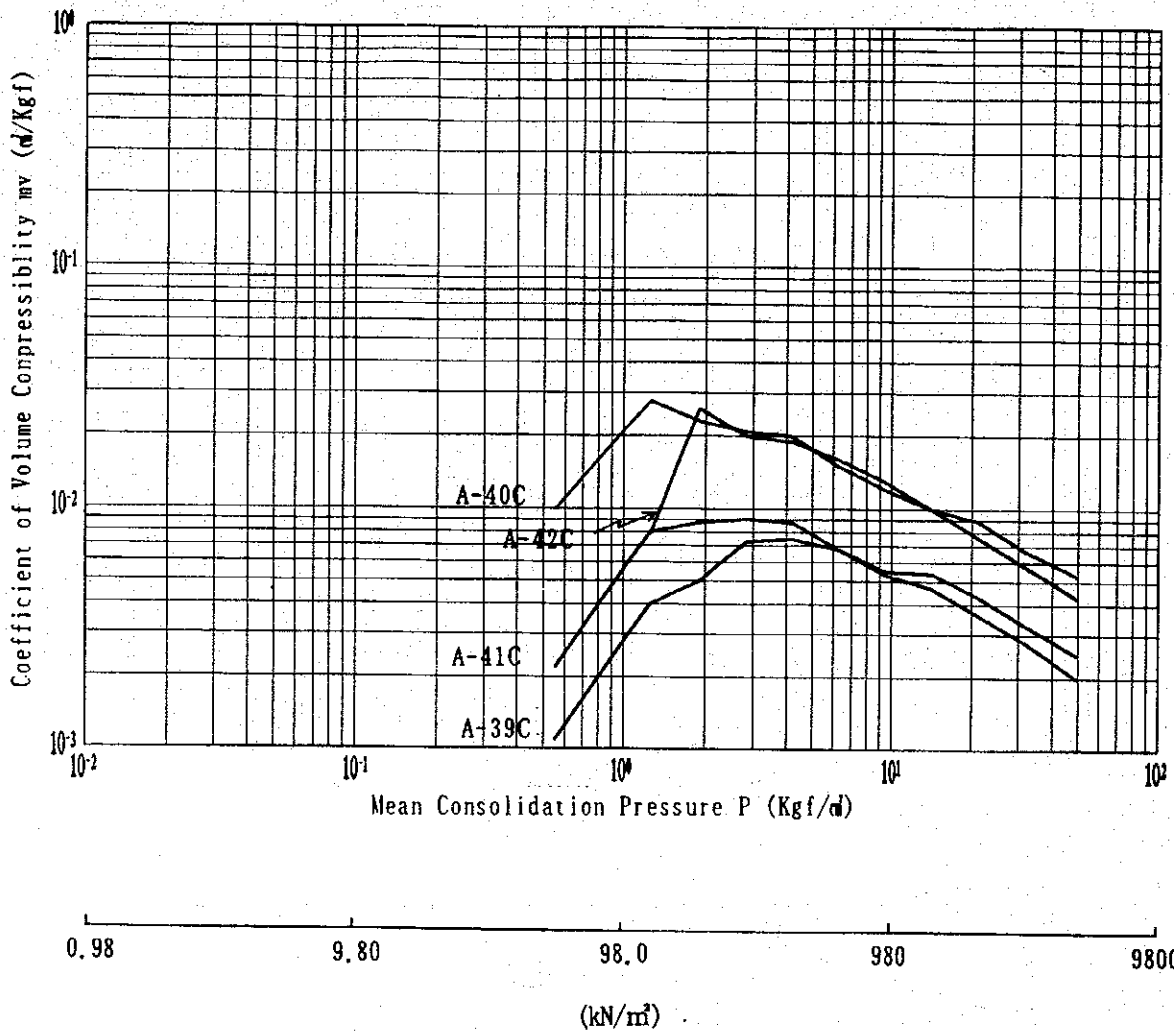
Coefficient of Volume Compressibility,
 m_v versus Pressure Curves at Site-A [Pt]

THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDENCE
 IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | KOKUSAI KOGYO CO., LTD



Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [Tb]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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Coefficient of Volume Compressibility, mv versus Pressure Curves at Site-A [Pn]	
THE STUDY ON MANAGEMENT OF GROUNDWATER AND LAND SUBSIDECE IN THE BANGKOK METROPOLITAN AREA AND ITS VICINITY	
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ASIAN INSTITUTE OF TECHNOLOGY
GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

GRAIN SIZE ANALYSIS

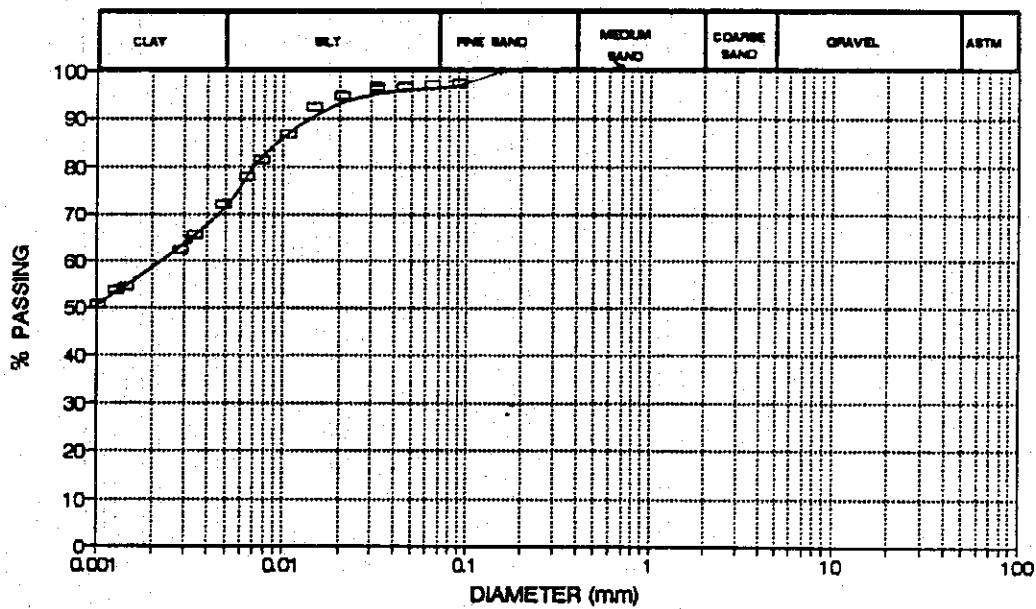
Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A Depth (m) 2.00-2.80 Sample No.: _____ Test No.: AH-1
 Soil Description: _____ Tested By: _____ Date: 20-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0907	97.50
0.0643	97.19
0.0456	96.55
0.0323	96.92
0.0322	96.55
0.0205	94.97
0.0147	92.44
0.0107	87.06
0.0077	81.67
0.0064	78.19
0.0048	72.18
0.0034	65.85
0.0028	62.37
0.0014	54.46
0.0013	53.82
0.0010	50.65



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GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION**

GRAIN SIZE ANALYSIS

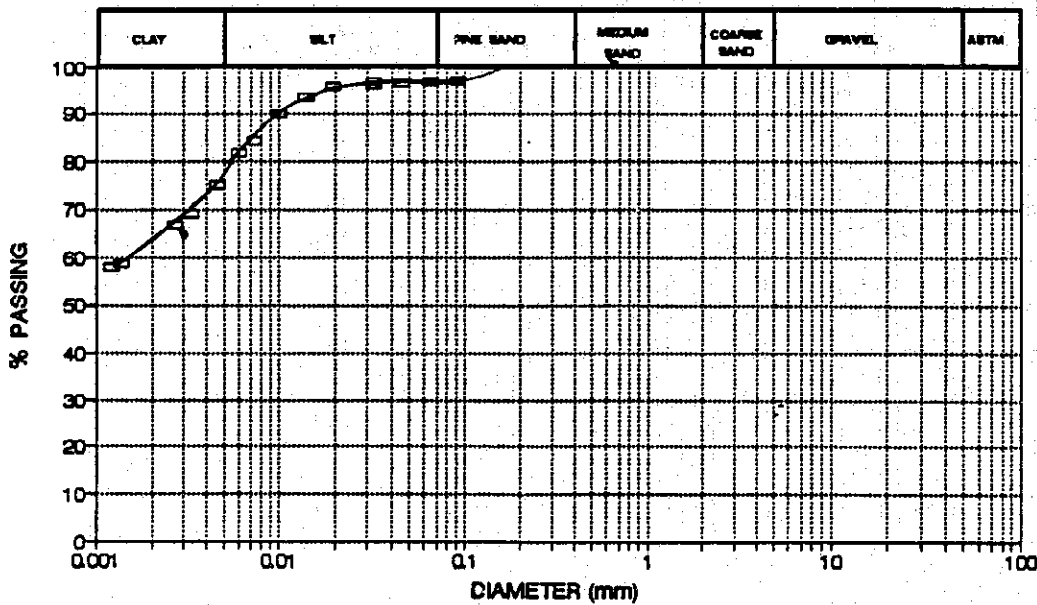
Project: Subsidence in Bangkok Vicinity Location: Minburi
 Borehole No.: A Depth (m) 4.00-4.80 Sample No.: _____ Test No.: AH-2
 Soil Description: _____ Tested By: _____ Date: 20-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0916	97.18
0.0649	96.85
0.0459	96.53
0.0325	96.21
0.0324	96.85
0.0195	95.88
0.0139	93.61
0.0100	90.06
0.0073	84.54
0.0060	81.95
0.0046	75.47
0.0033	69.33
0.0027	67.06
0.0014	58.96
0.0012	57.98
0.0010	55.07



ASIAN INSTITUTE OF TECHNOLOGY
GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity
 Borehole No.: A Depth (m) 6.00-6.80
 Soil Description: _____

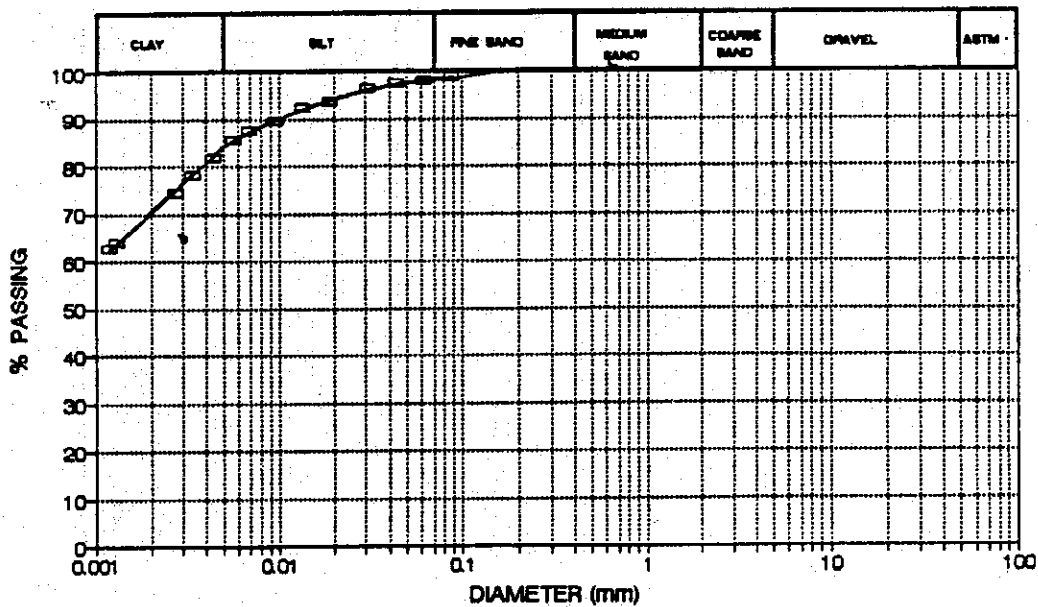
Location: Minburi
 Sample No.: _____ Test No.: AH-3
 Tested By: _____ Date: 25-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0869	98.90
0.0617	98.31
0.0437	97.71
0.0311	96.82
0.0311	96.82
0.0188	93.84
0.0134	92.65
0.0096	89.97
0.0069	87.88
0.0057	85.79
0.0043	81.94
0.0034	78.36
0.0027	74.49
0.0013	64.07
0.0012	62.88
0.0009	60.19



ASIAN INSTITUTE OF TECHNOLOGY GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

GRAIN SIZE ANALYSIS

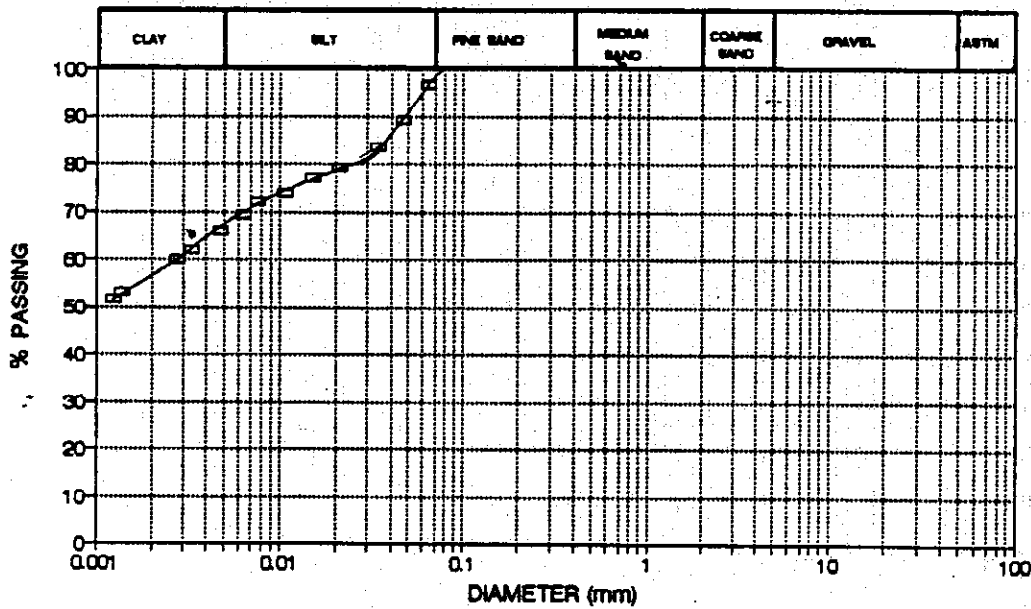
Project: Subsidence in Bangkok Vicinity Location: Minburi
 Borehole No.: A Depth (m) 8.00-8.00 Sample No.: _____ Test No.: AH-4
 Soil Description: _____ Tested By: _____ Date: 20-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.75	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0641	96.59
0.0470	89.42
0.0341	83.81
0.0341	83.81
0.0210	79.45
0.0150	77.27
0.0107	74.15
0.0077	72.28
0.0063	69.48
0.0047	66.36
0.0033	62.00
0.0027	60.14
0.0014	53.28
0.0012	61.72
0.0010	57.90



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GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION**

GRAIN SIZE ANALYSIS

Project: Subsidence in Bangkok Vicinity Location: Minburi
 Borehole No.: A Depth (m) 10.00-10.80 Sample No.: _____ Test No.: AH-5
 Soil Description: _____ Tested By: _____ Date: 20-1-93

SIEVE ANALYSIS

Opening (mm)	Percent Finer (%)
4.76	
2.00	
0.84	
0.59	
0.42	
0.30	
0.15	
0.07	

HYDROMETER ANALYSIS

Particle Size (mm)	Percent Finer (%)
0.0685	97.27
0.0636	94.28
0.0458	90.98
0.0333	85.30
0.0333	85.60
0.0217	79.31
0.0156	76.32
0.0112	73.33
0.0080	69.73
0.0066	67.94
0.0049	64.96
0.0035	61.06
0.0028	59.27
0.0014	53.58
0.0013	52.38
0.0010	50.28

