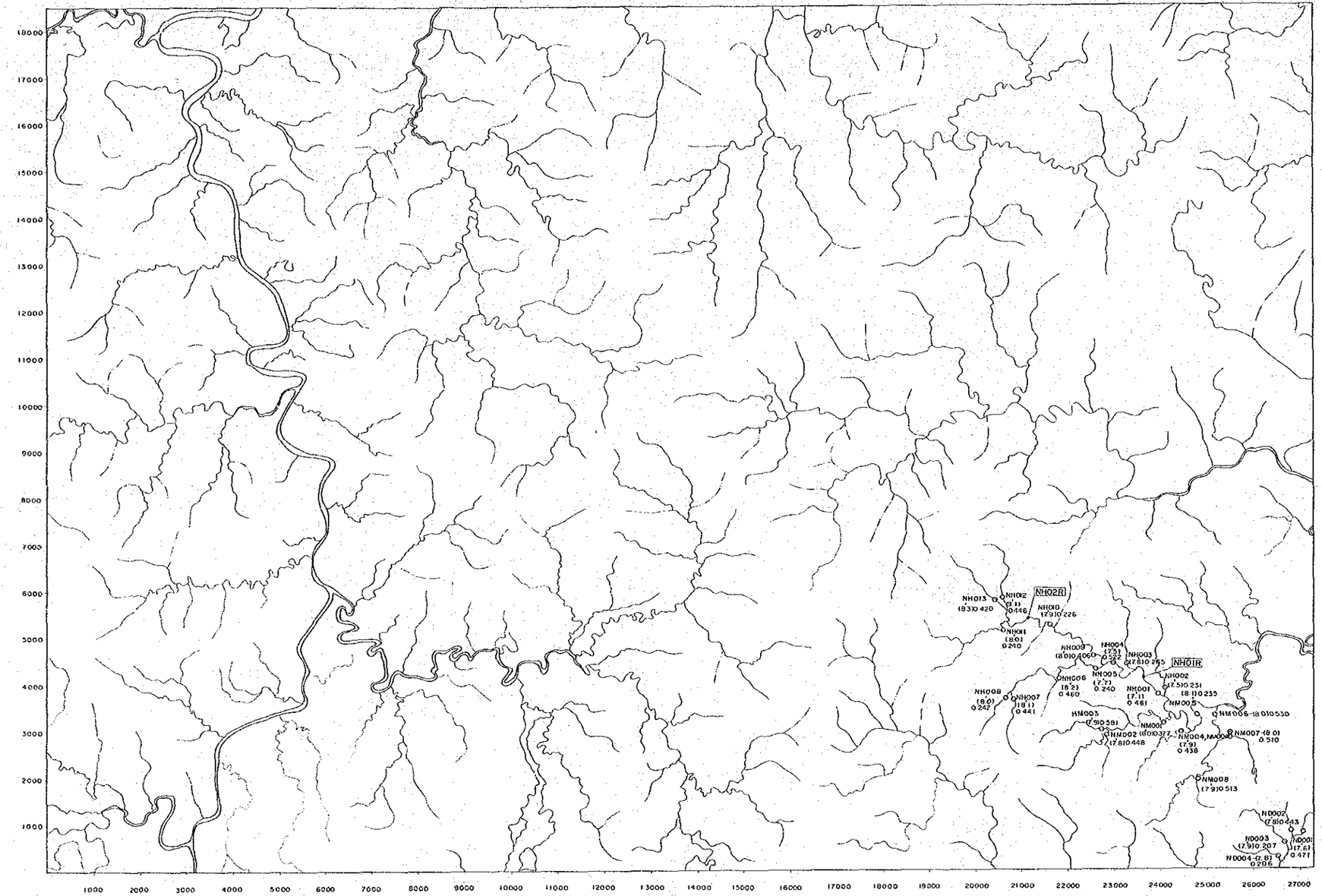
CATUBIG

SHEET 4057 III



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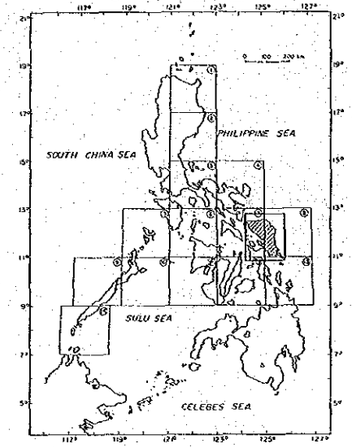
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA



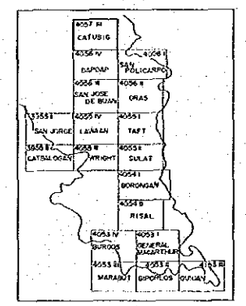
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

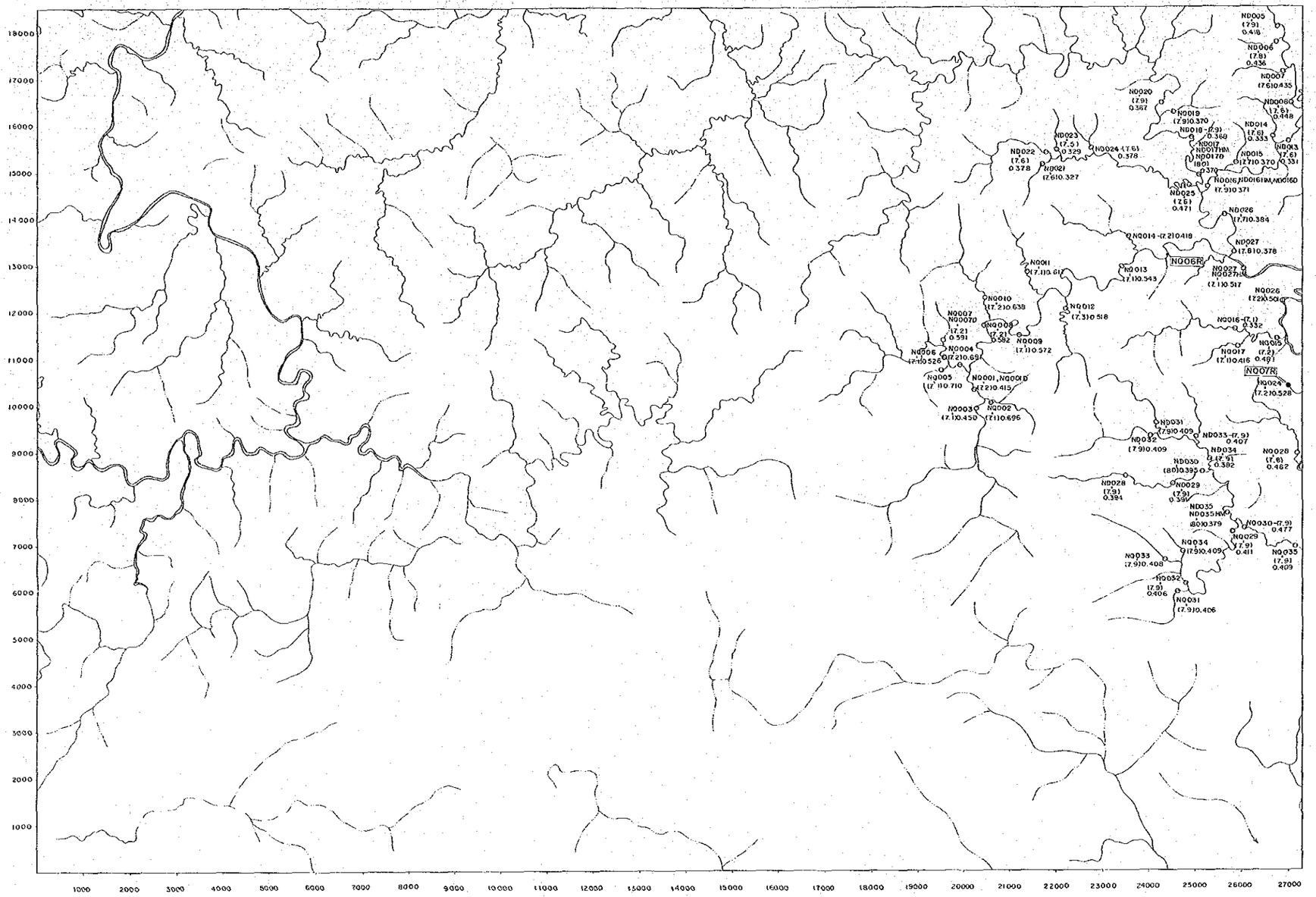
(7.0) : pH

0.260 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

DAPDAP

SHEET 4056 IV



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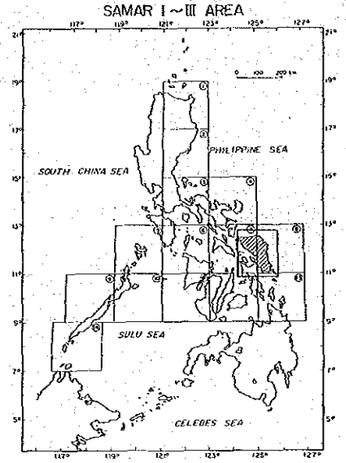
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS-
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA



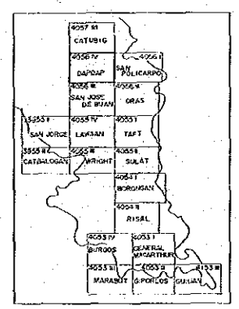
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

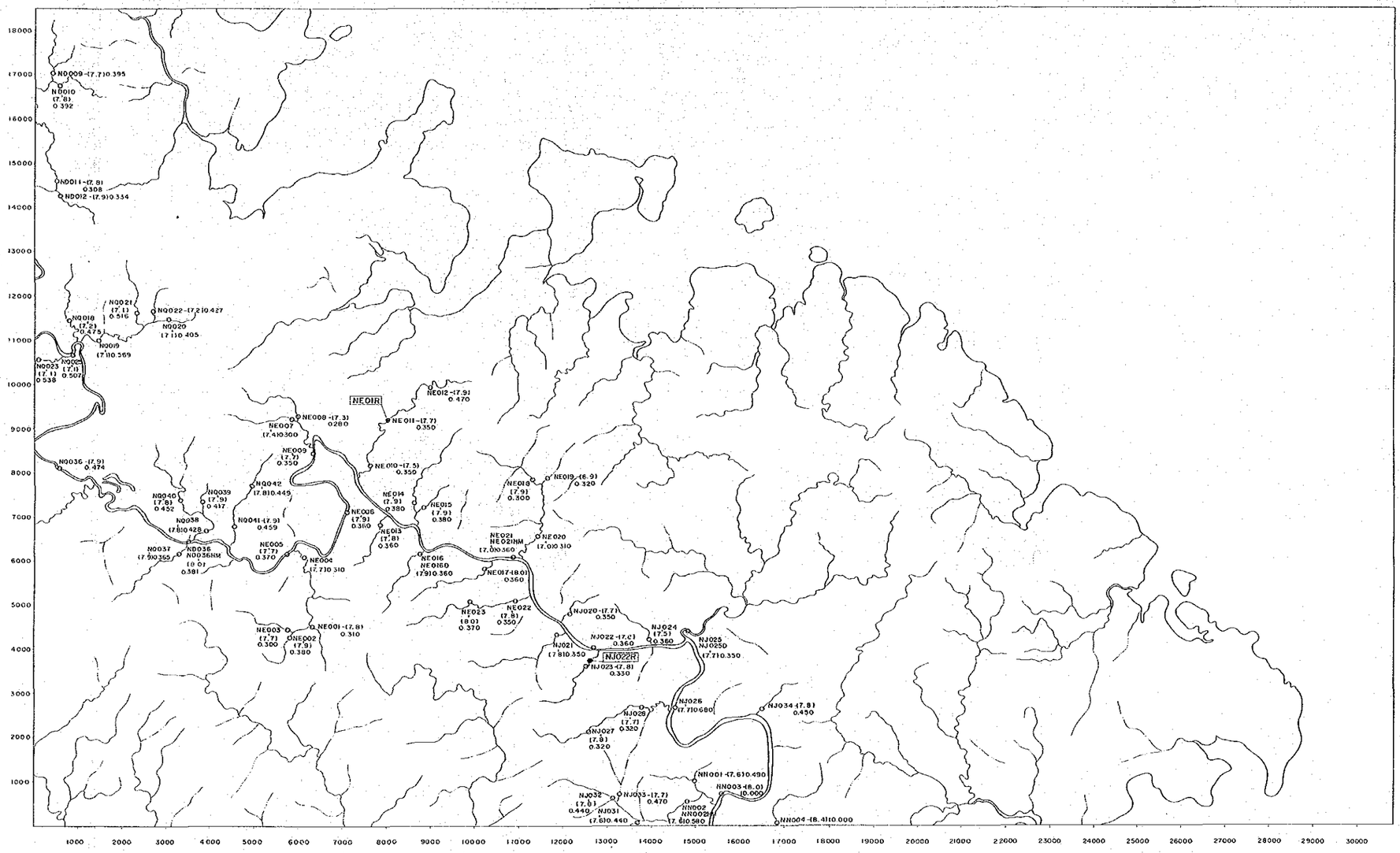
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

SAN POLICARPO

SHEET 4056 I



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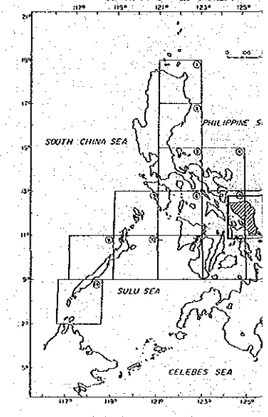
THE MINERAL EXPLORATI
– MINERAL DEPOSITS AND TECTONICS
CONTRASTING GEOLOGIC ENVIRO
IN
THE REPUBLIC OF THE PHILIP
PHASE IV

SAMPLING POINTS, pH VALU
ELECTRIC CONDUCTIVITY
SAMAR I ~ III AREA

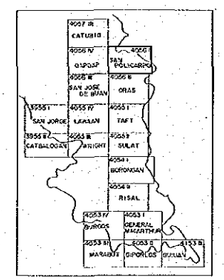


JAPAN INTERNATIONAL COOPERATION
METAL MINING AGENCY OF JA
Mar. 1988

Scale 1 : 50,000

0 2

LEGEND



O : Sampling

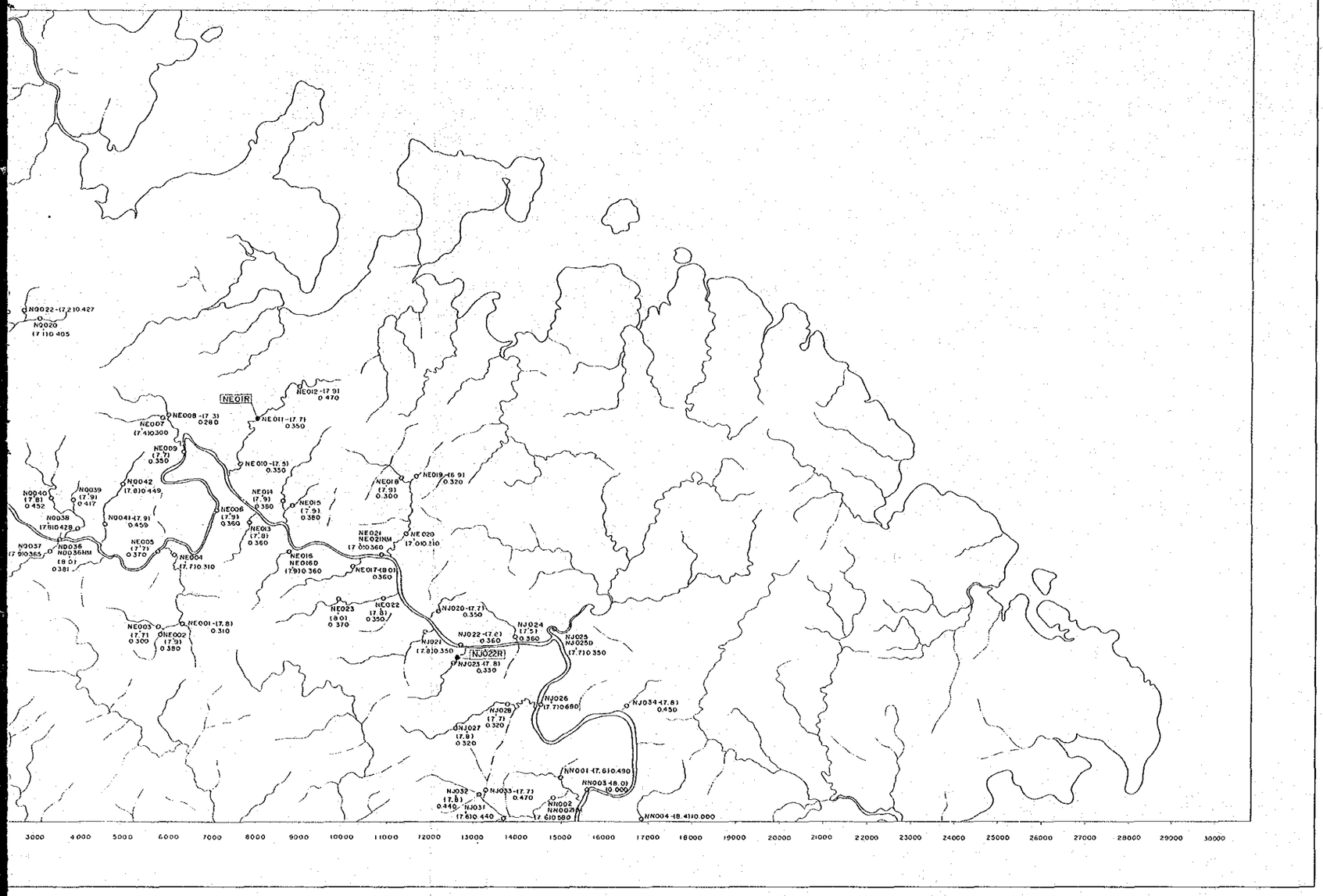
(7.0) : pH

0.280 : Electric c

B-48 : Sampling

SAN POLICARPO

SHEET 4056 I



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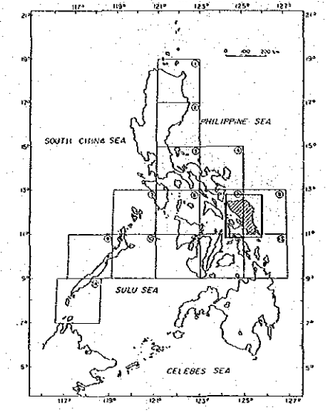
PL. 5-3

THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

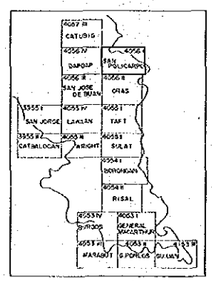


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

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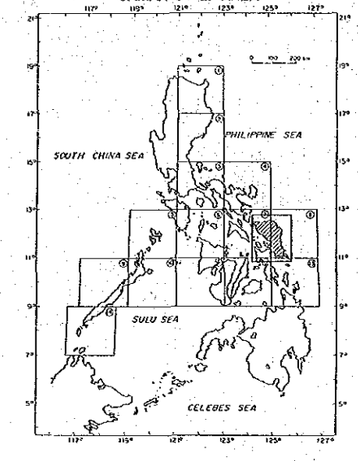
0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS–
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES
SAMAR I ~ III AREA

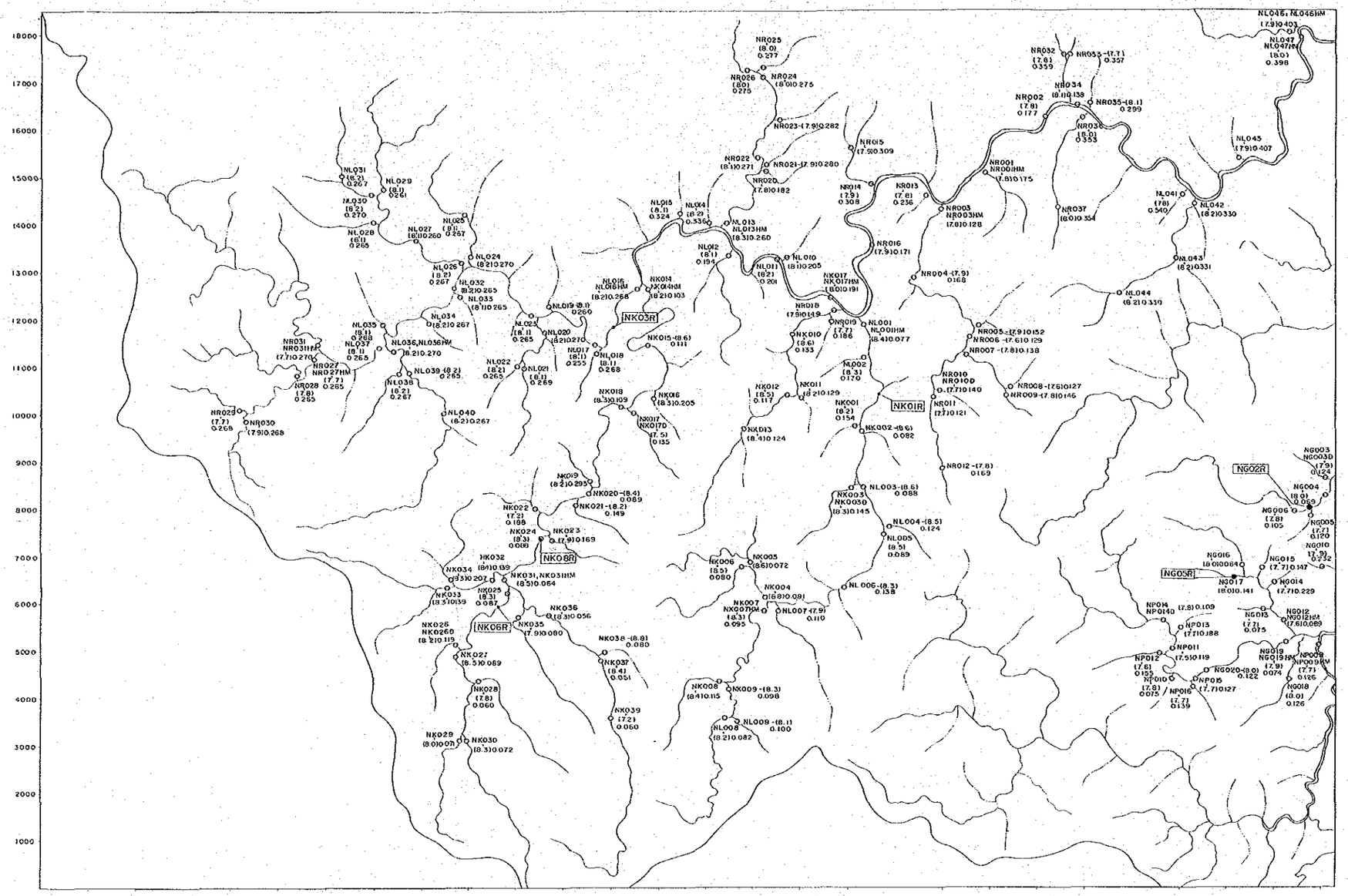


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

SAN JOSE DE BUAN

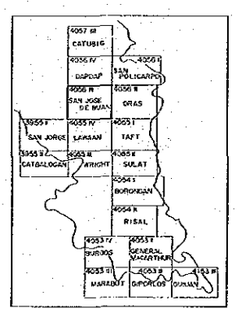
SHEET 4056 III



Scale 1 : 50,000

0 2 4 km

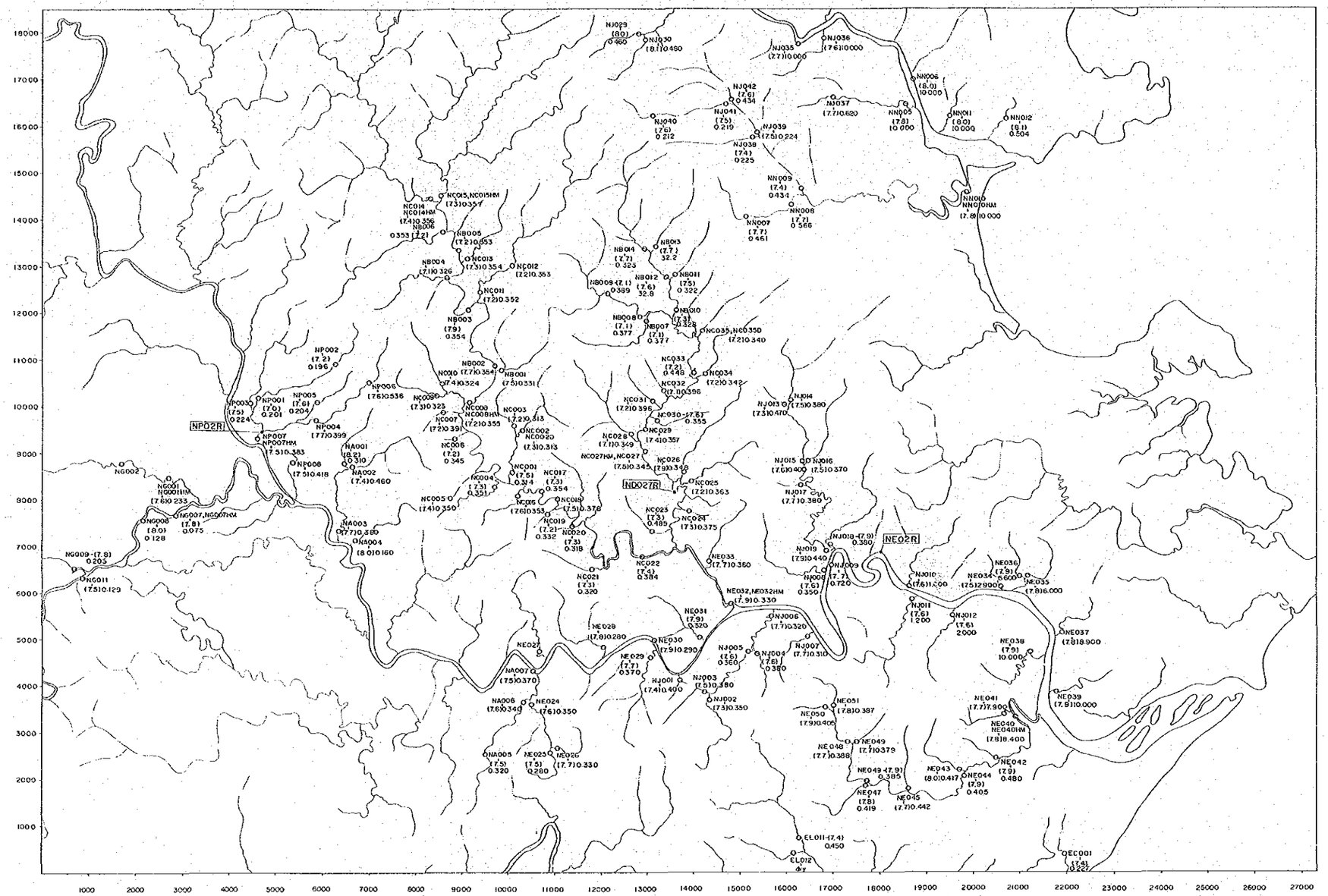
LEGEND



- ○ : Sampling point (Stream sediment, heavy mineral)
- (7.0) : pH
- 0.280 : Electric conductivity (μs/cm)
- B-48 : Sampling point (for laboratory work)

ORAS

SHEET 4056 II



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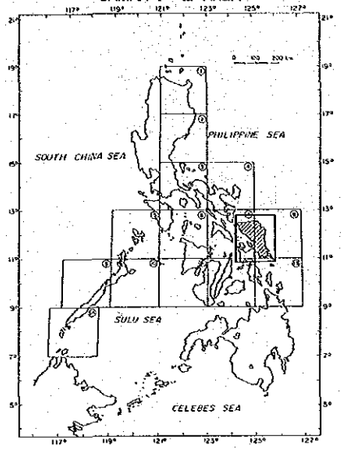
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS–
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅳ

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR Ⅰ~Ⅲ AREA

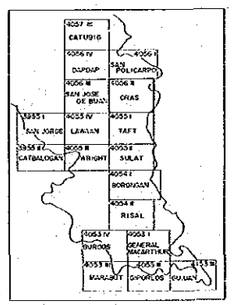


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

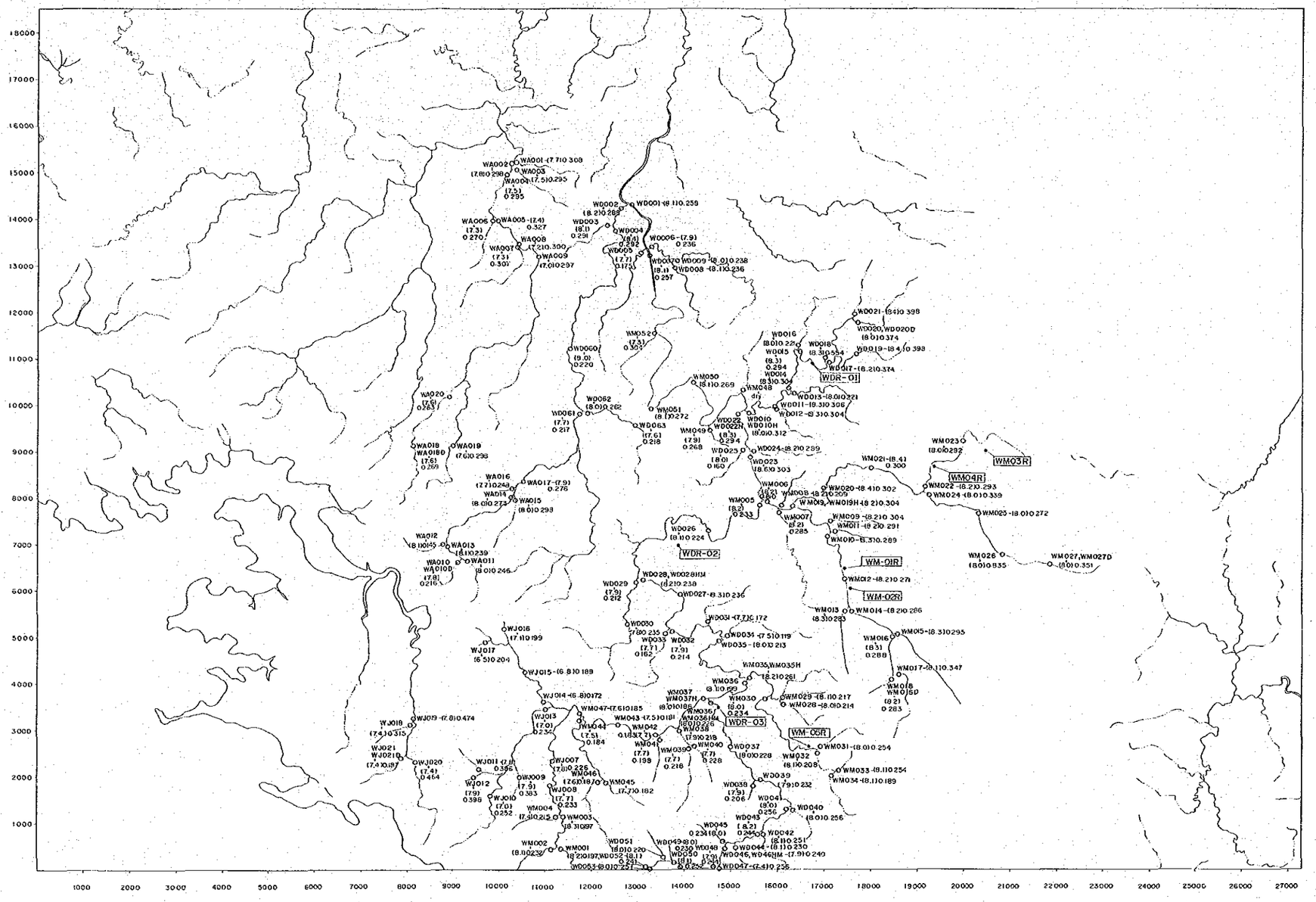
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS - IN THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅳ

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR Ⅰ~Ⅲ AREA

SAN JORGE

SHEET 3955 I



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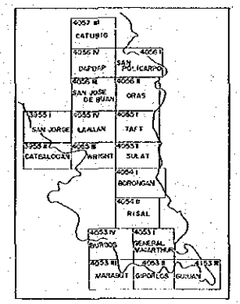
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

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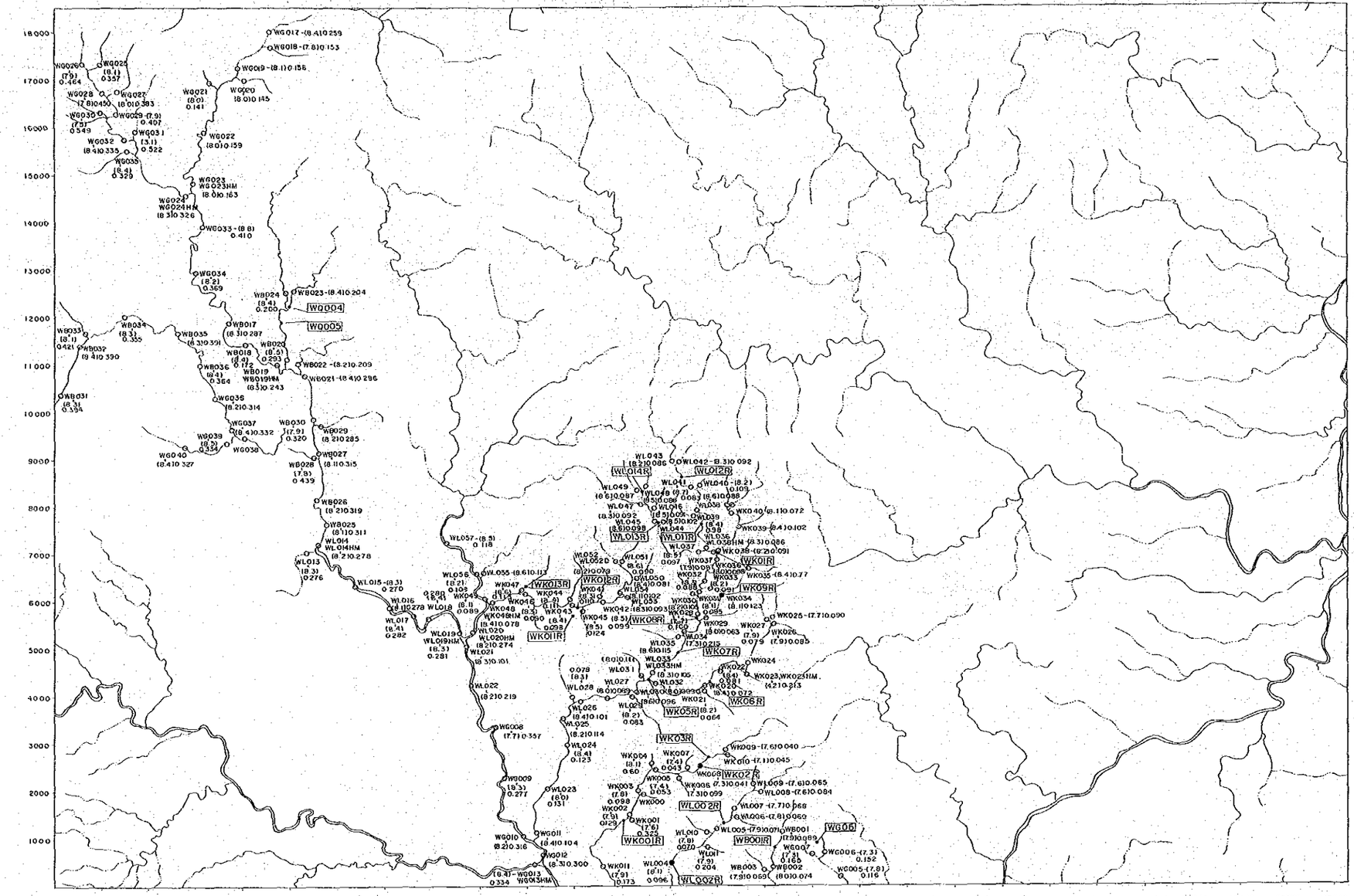


PL. 5-7

THE MINERAL EXPLORATION

– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –

IN

THE REPUBLIC OF THE PHILIPPINES

PHASE Ⅳ

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR Ⅰ~Ⅲ AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND

O : Sampling point (Stream sediment, heavy mineral)

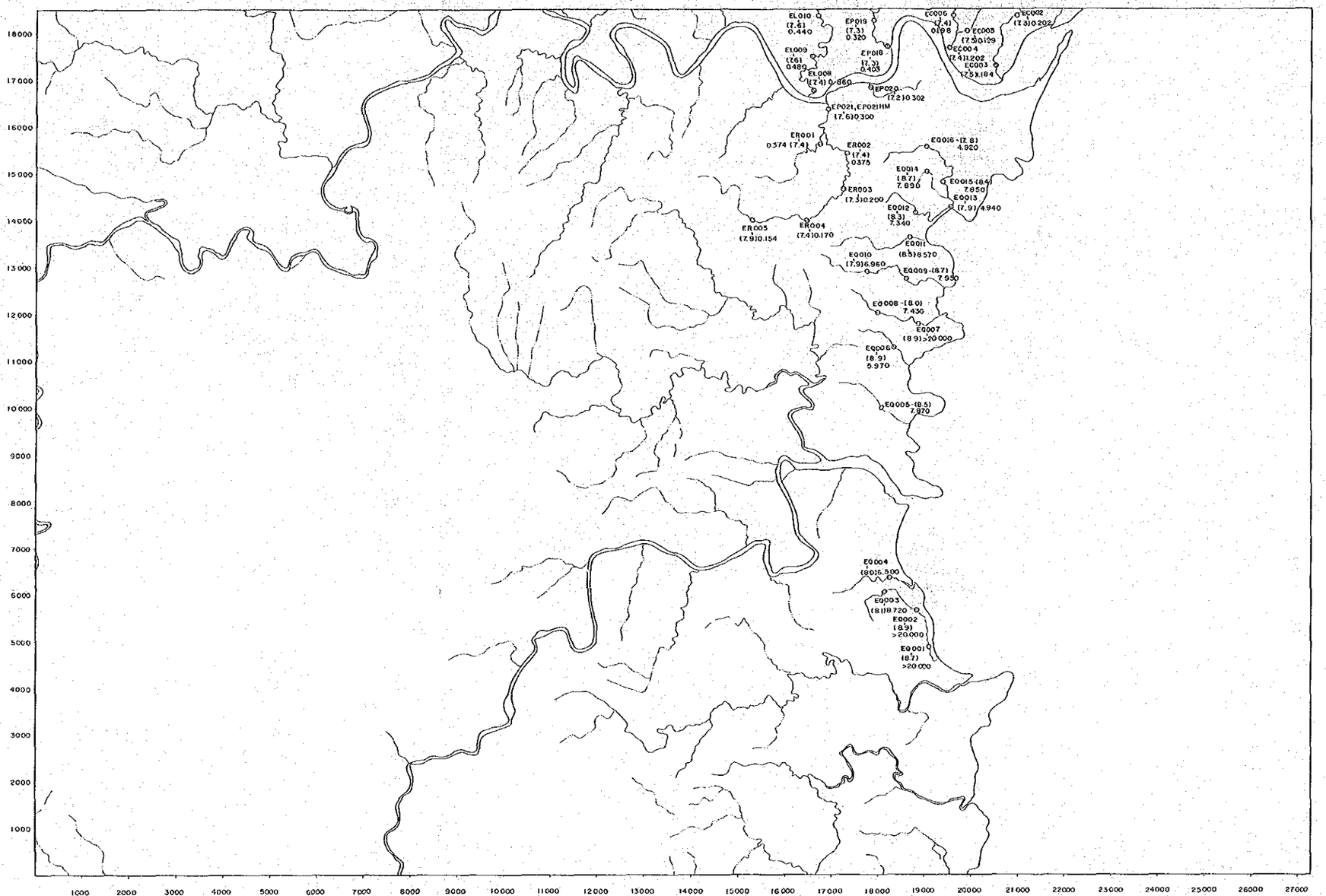
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

TAFT

SHEET 4055 I



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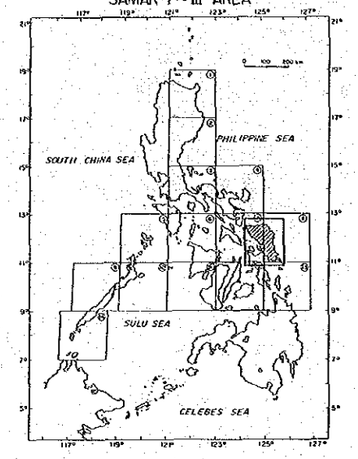
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

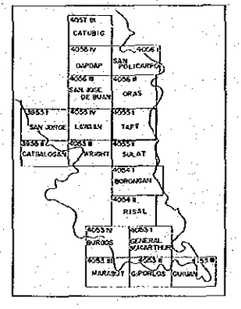


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



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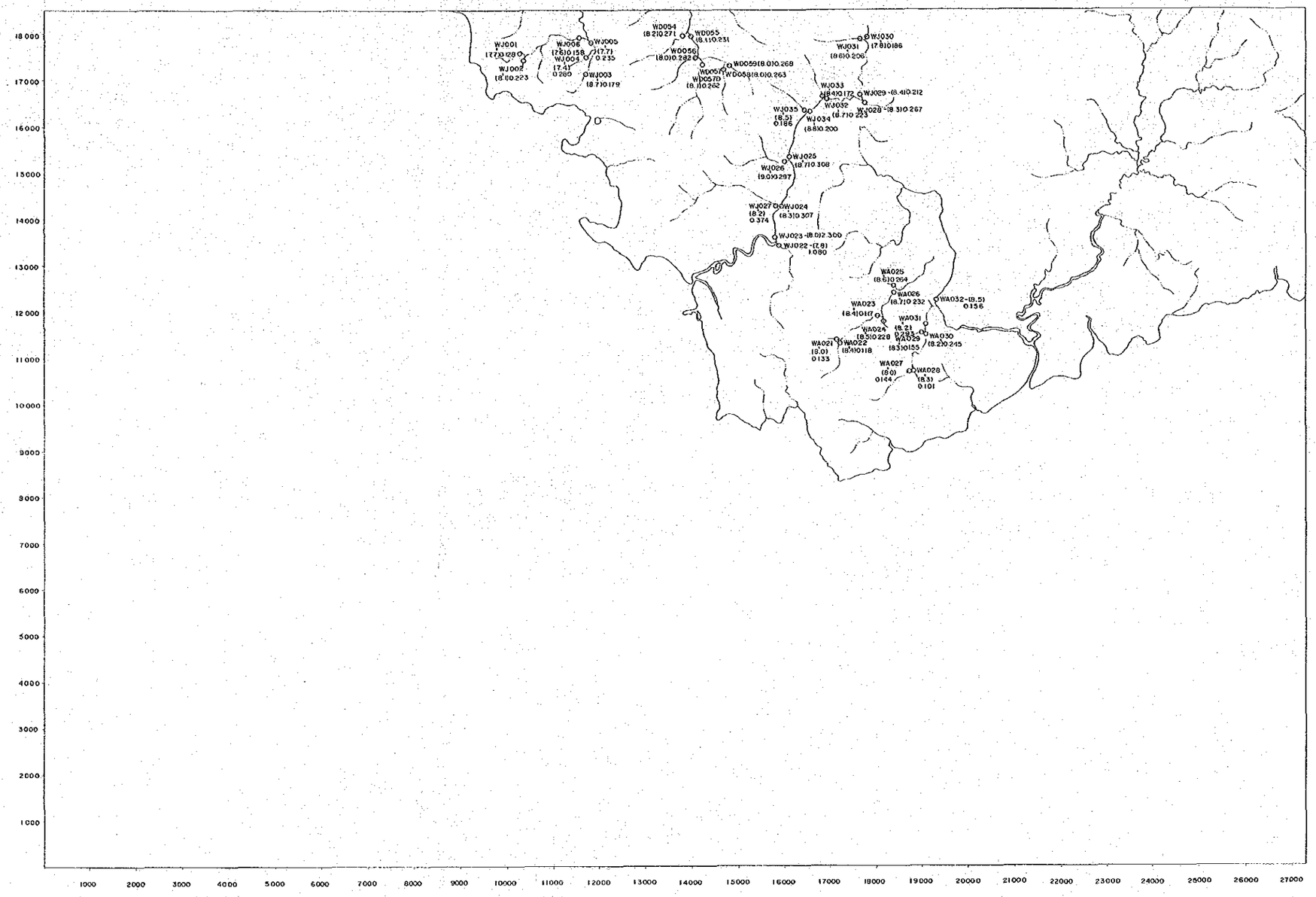
B-48 : Sampling point (for laboratory work)

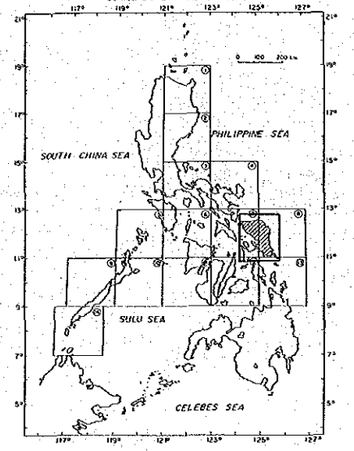
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS – IN THE REPUBLIC OF THE PHILIPPINES PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES
SAMAR I ~ III AREA

CATBALOGAN

SHEET 3955 II





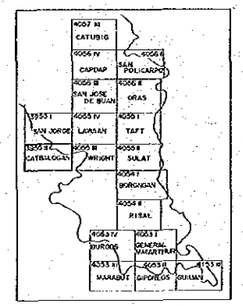
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

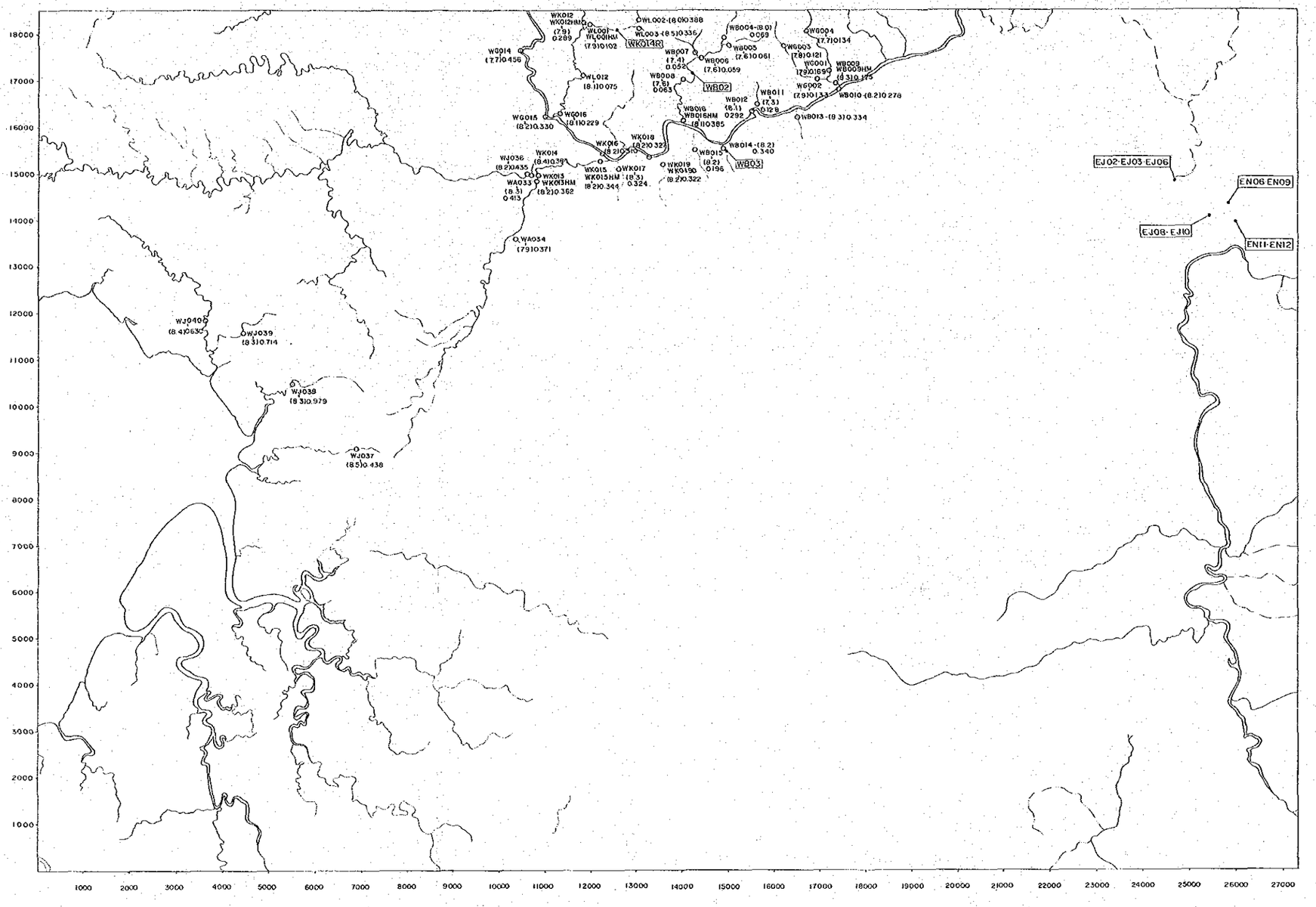
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

8-48 : Sampling point (for laboratory work)

WRIGHT

SHEET 4055 III



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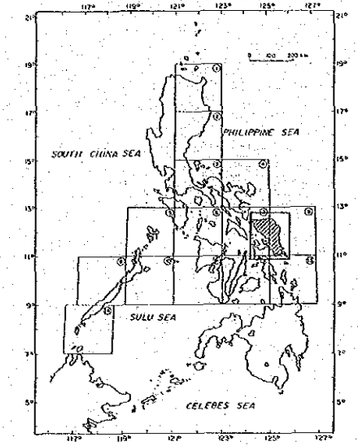
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA



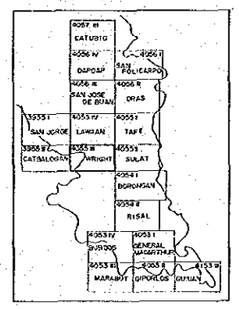
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

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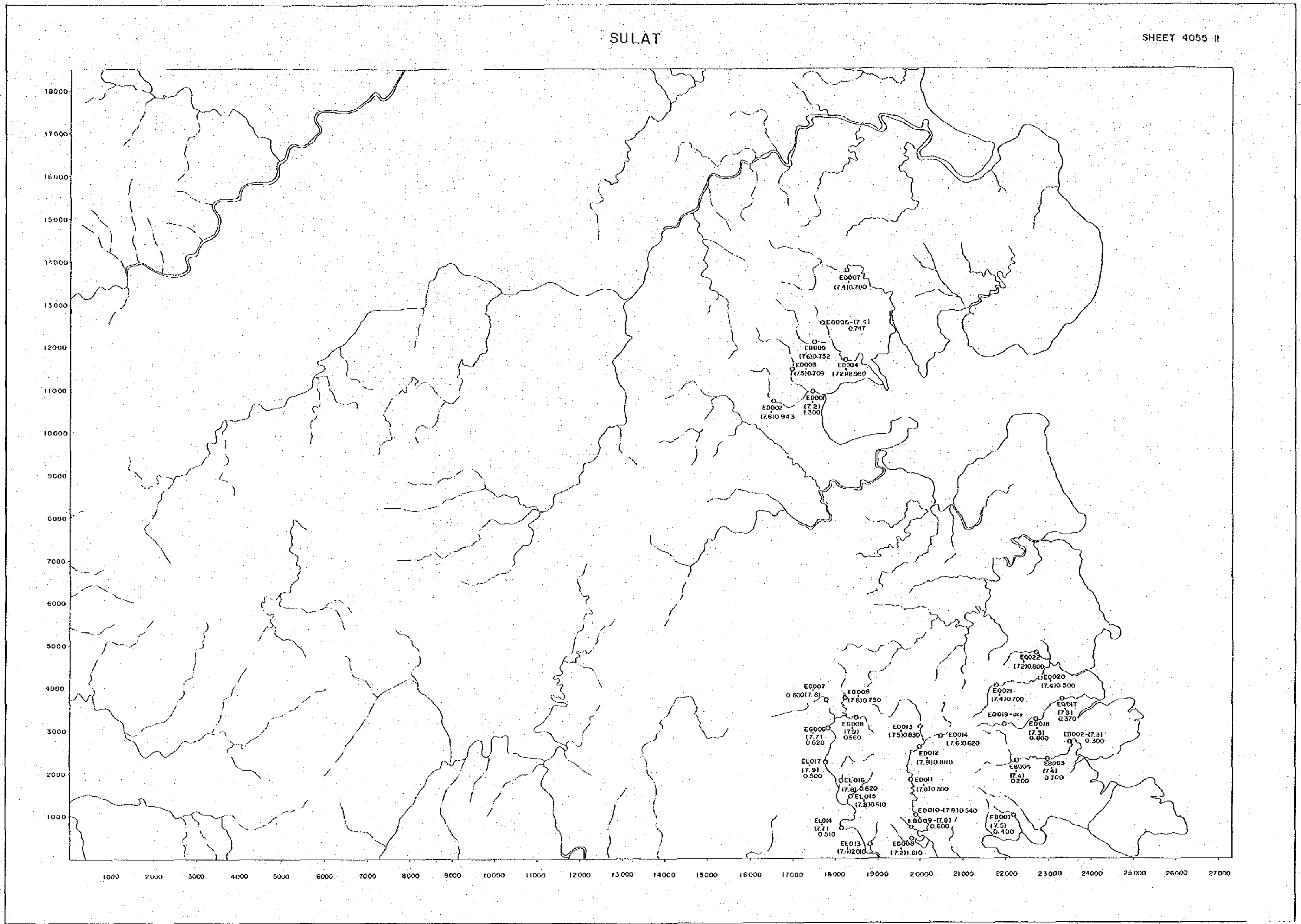
0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)



PL. 5-11

THE MINERAL EXPLORATION

– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –

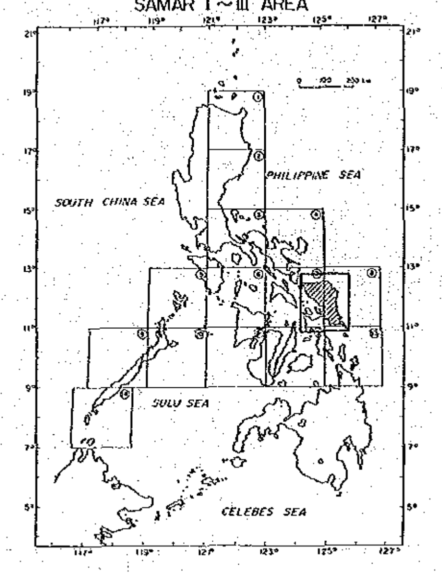
IN

THE REPUBLIC OF THE PHILIPPINES

PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

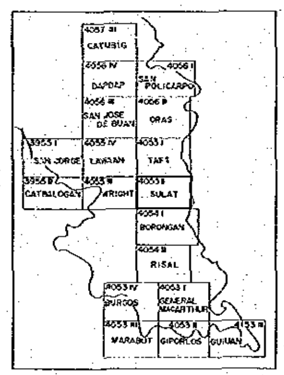


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

LEGEND



○ : Sampling point (Stream sediment, heavy mineral)

(7.0) : pH

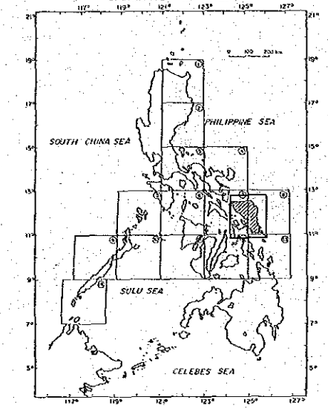
0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA



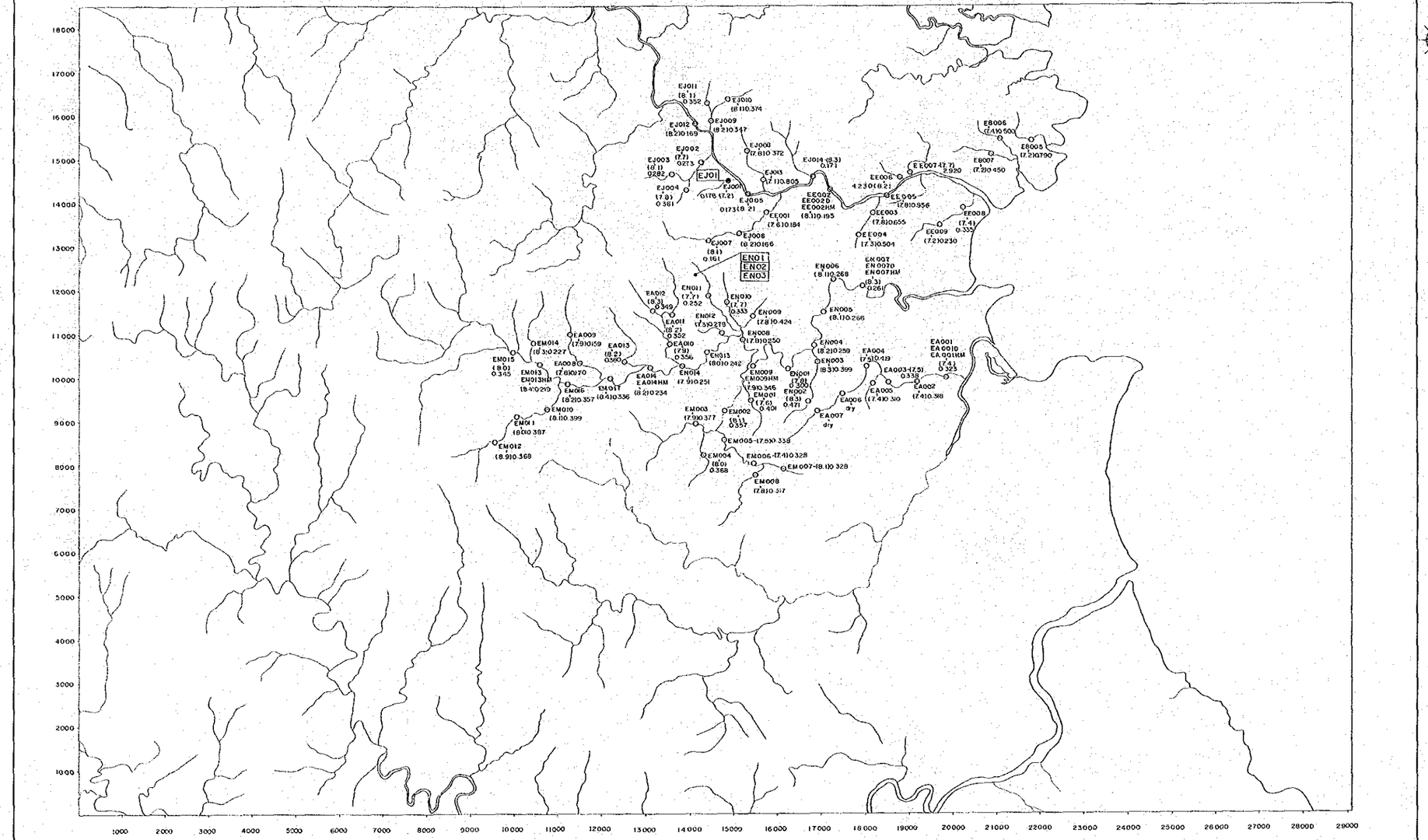
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

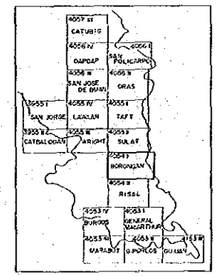
Scale 1 : 50,000

0 2 4 km

BORONGAN SHEET 4054 I



LEGEND



O : Sampling point (Stream sediment, heavy mineral)

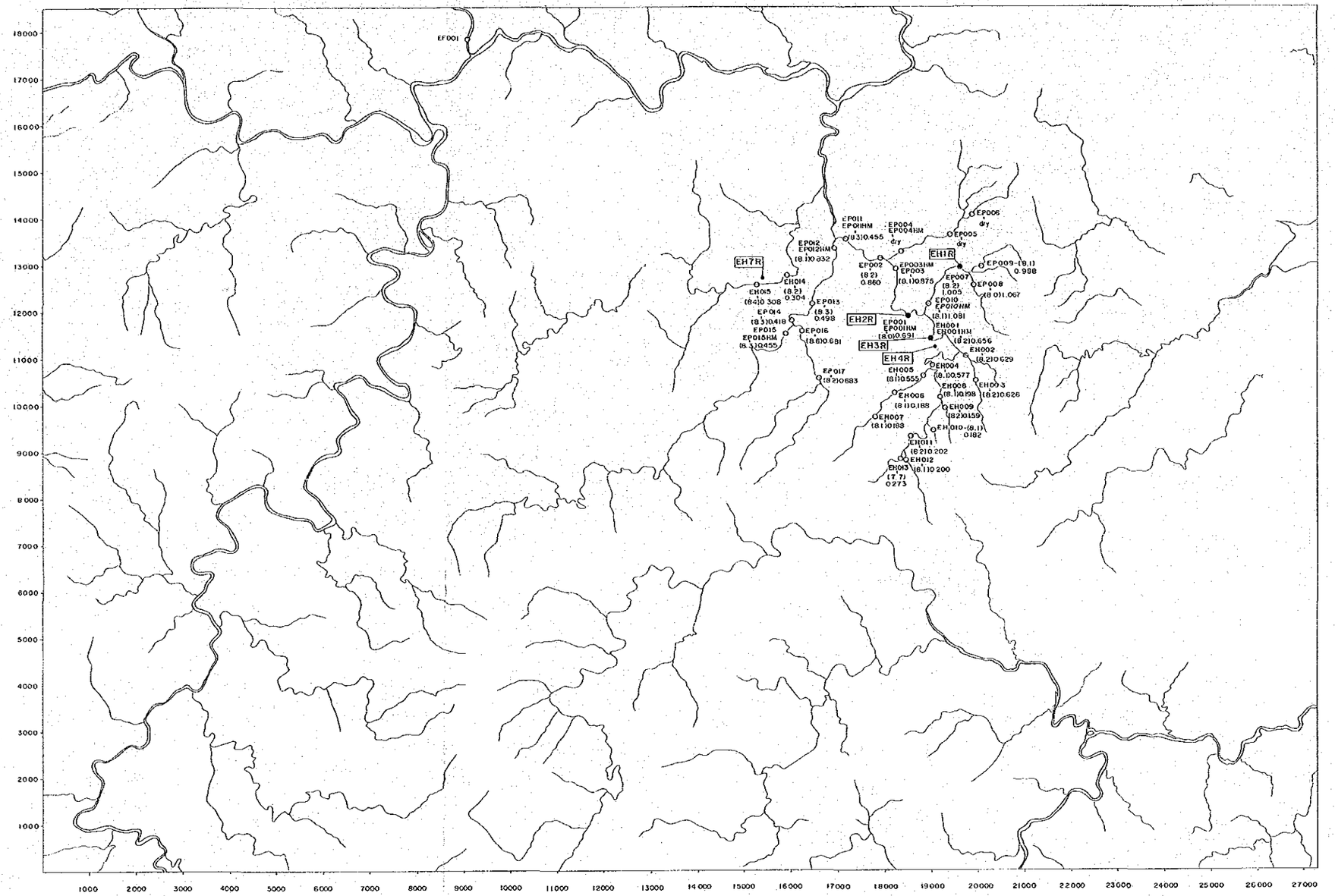
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

RIZAL

SHEET 4054 II



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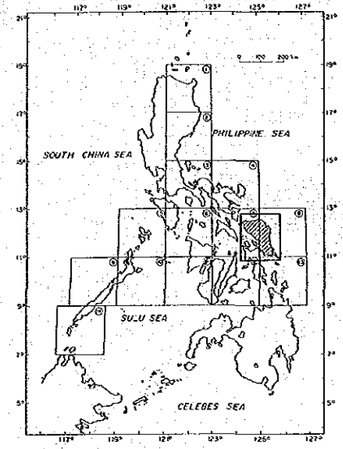
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

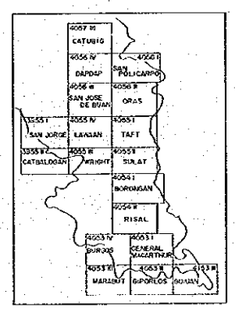


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



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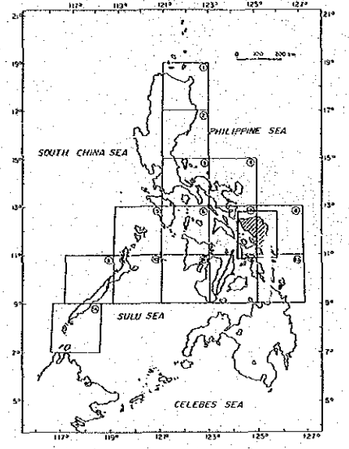
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS– IN THE REPUBLIC OF THE PHILIPPINES
PHASE IV
SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES
SAMAR I ~ III AREA

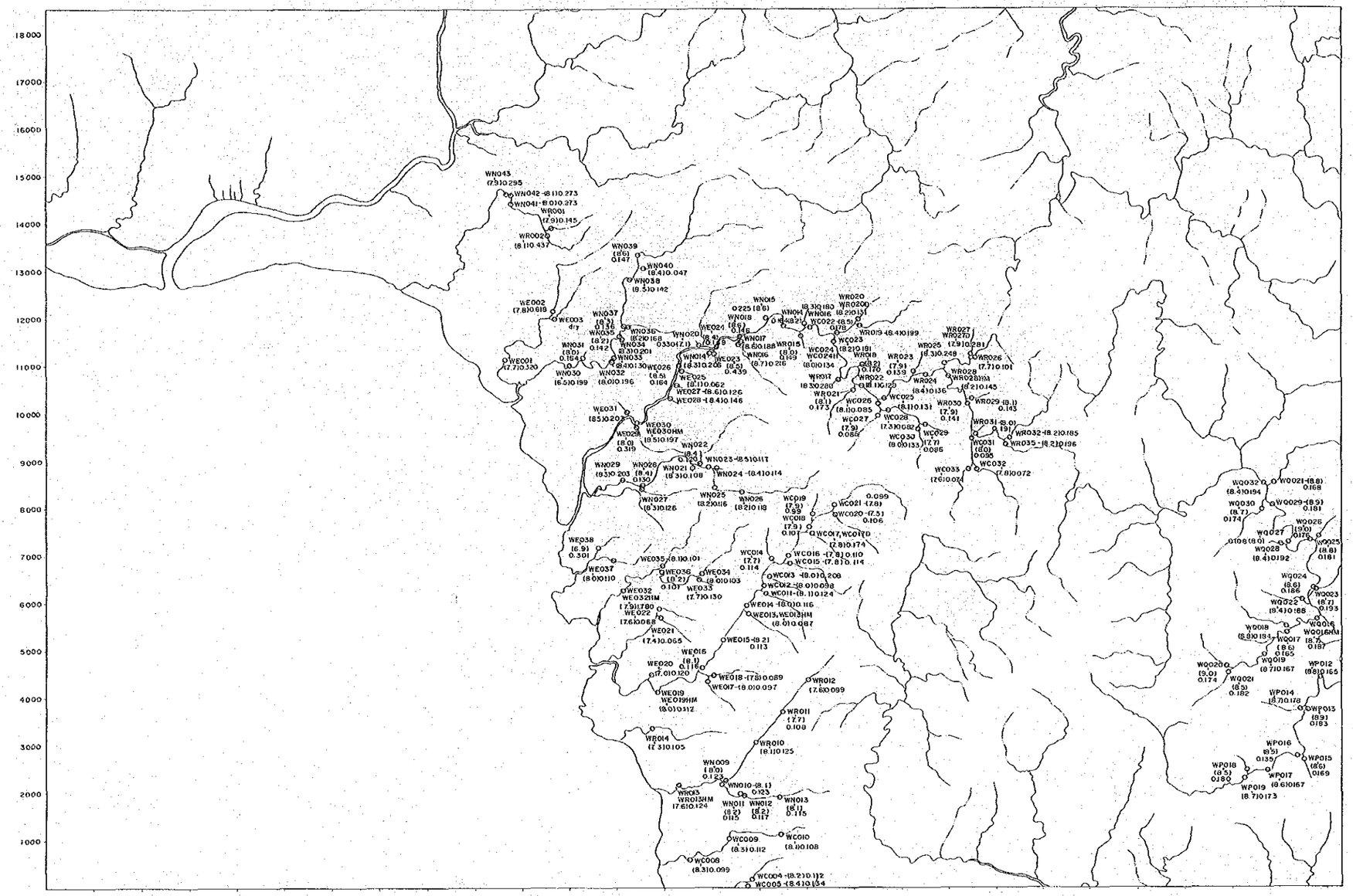


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

BURGOS

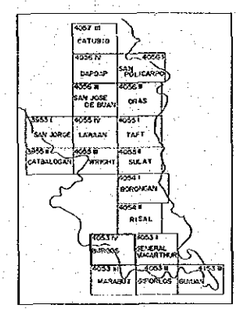
SHEET 4053 IV



Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

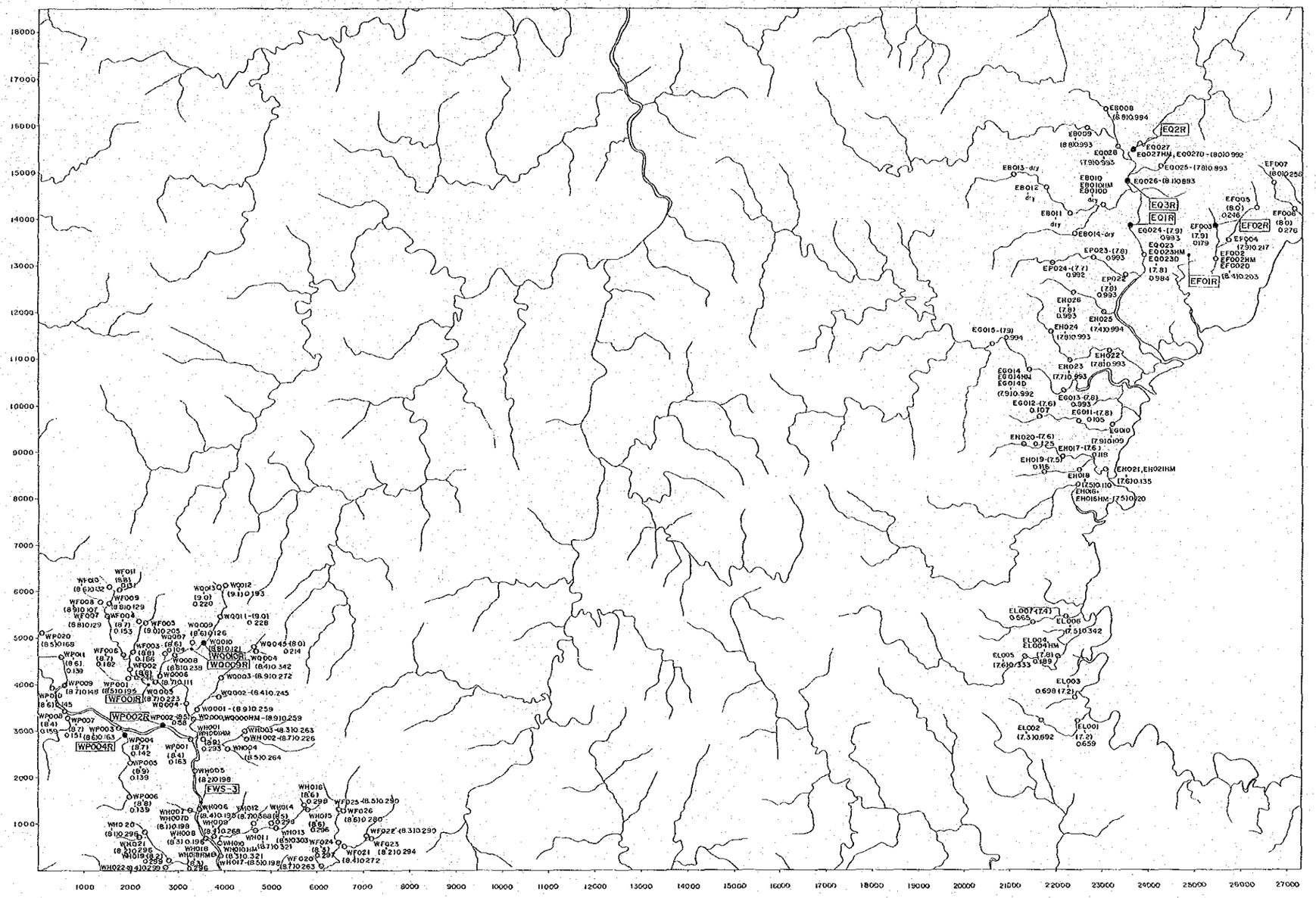
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

8-48 : Sampling point (for laboratory work)

GENERAL MacARTHUR

SHEET 4053 I



N

THE MINERAL EXPLORATION
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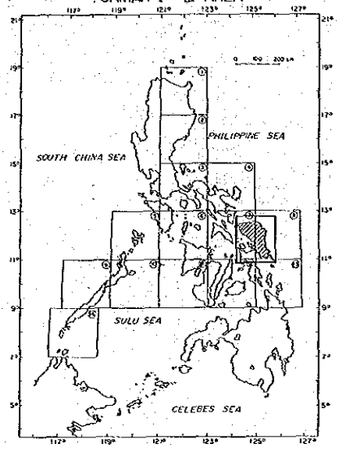
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

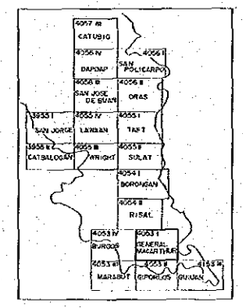


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



○ : Sampling point (Stream sediment, heavy mineral)

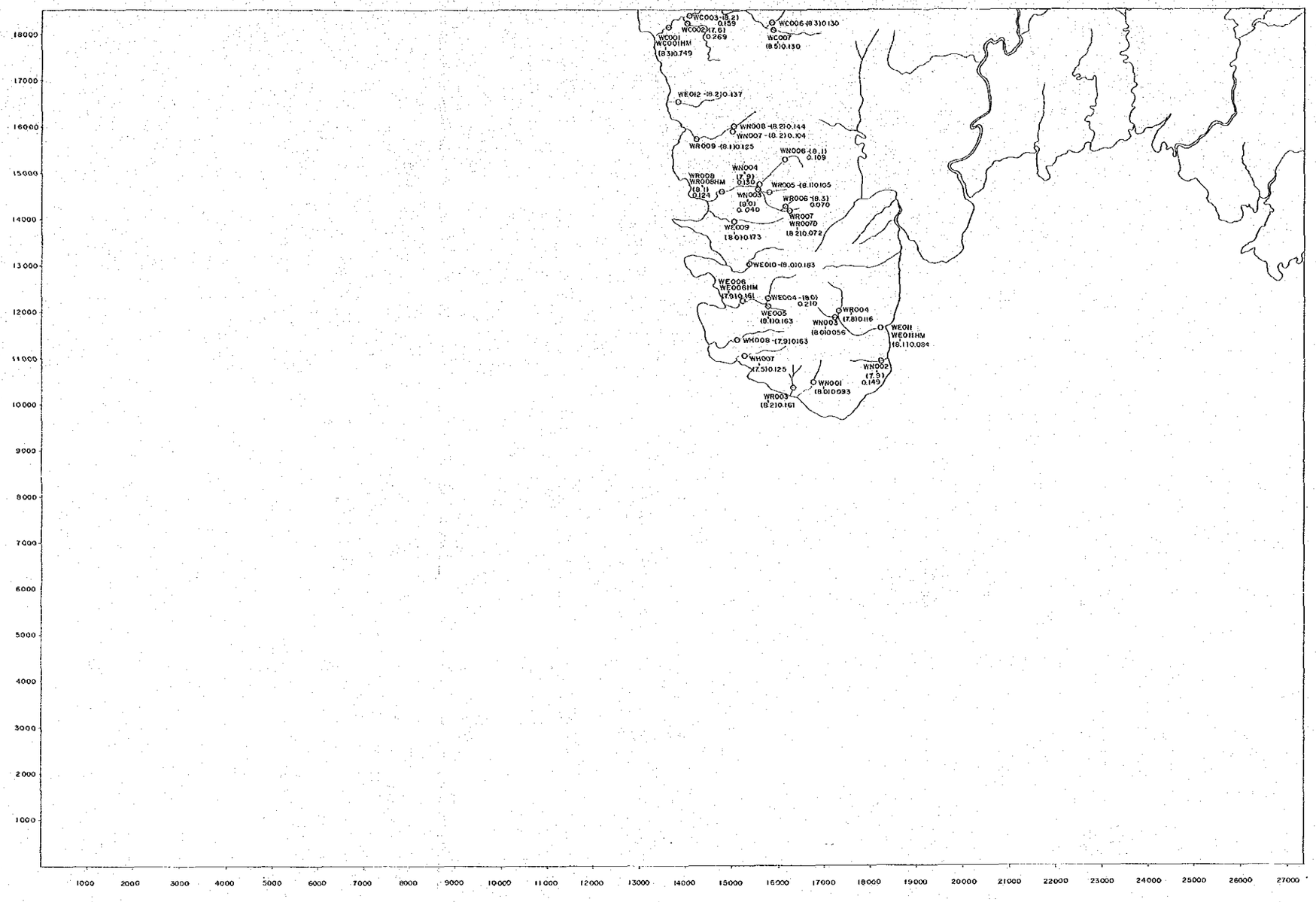
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

MARABUT

SHEET 4053 III



N

THE MINERAL EXPLORATION
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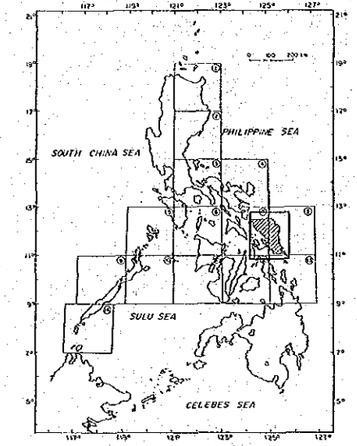
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE IV
SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES
SAMAR I ~ III AREA

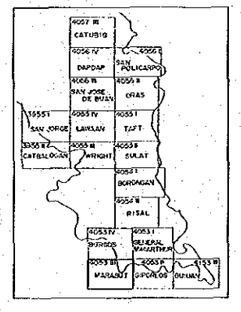


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



○ : Sampling point (Stream sediment, heavy mineral)

(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

THE MINERAL EXPLORATION
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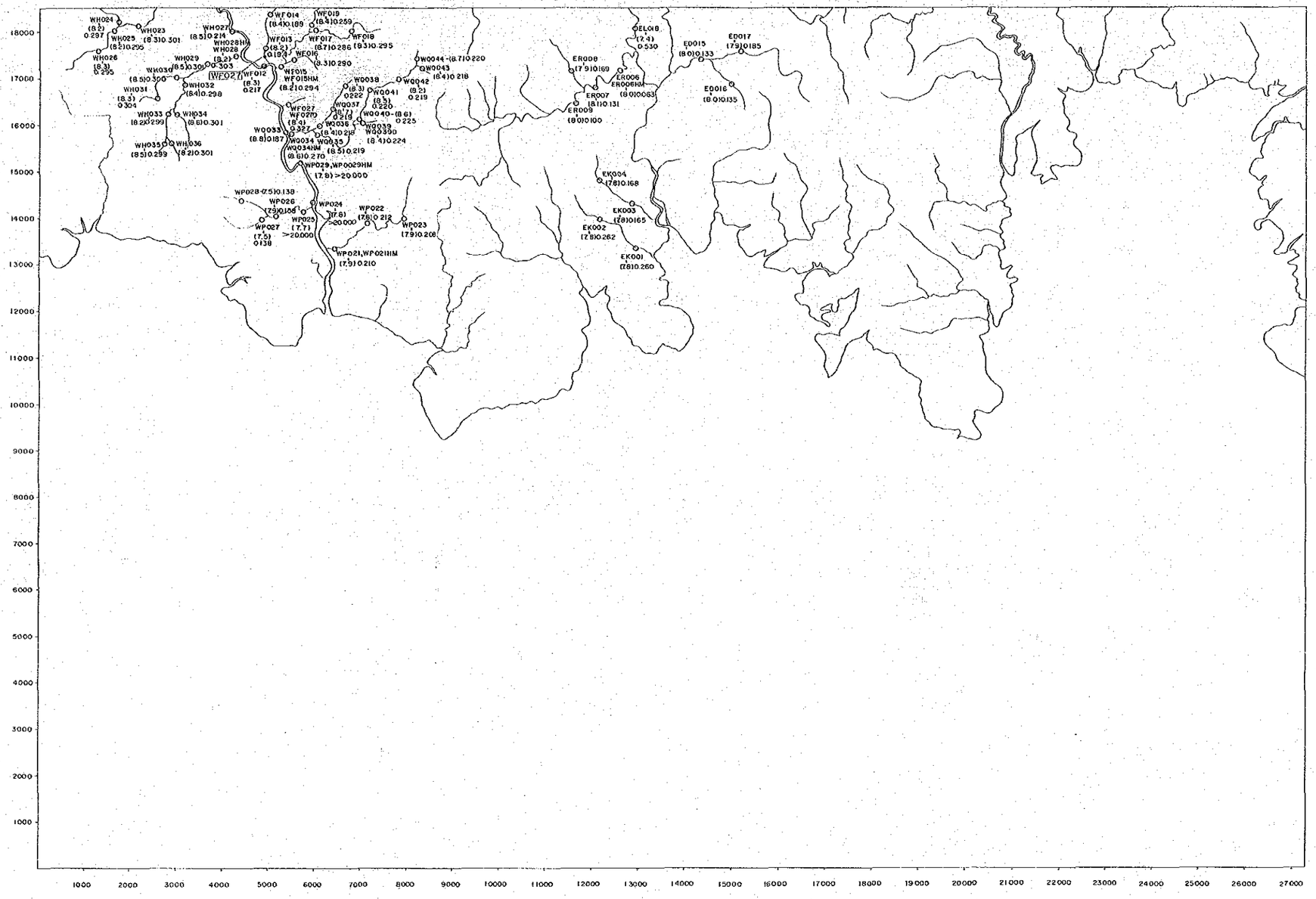
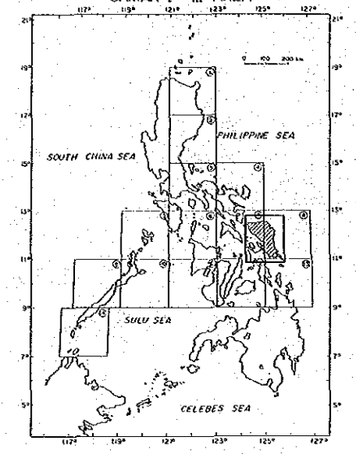
SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

GIPORLOS

SHEET 4053 II





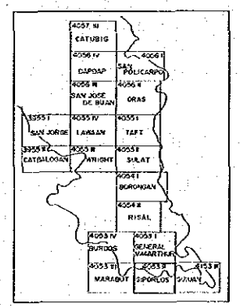
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

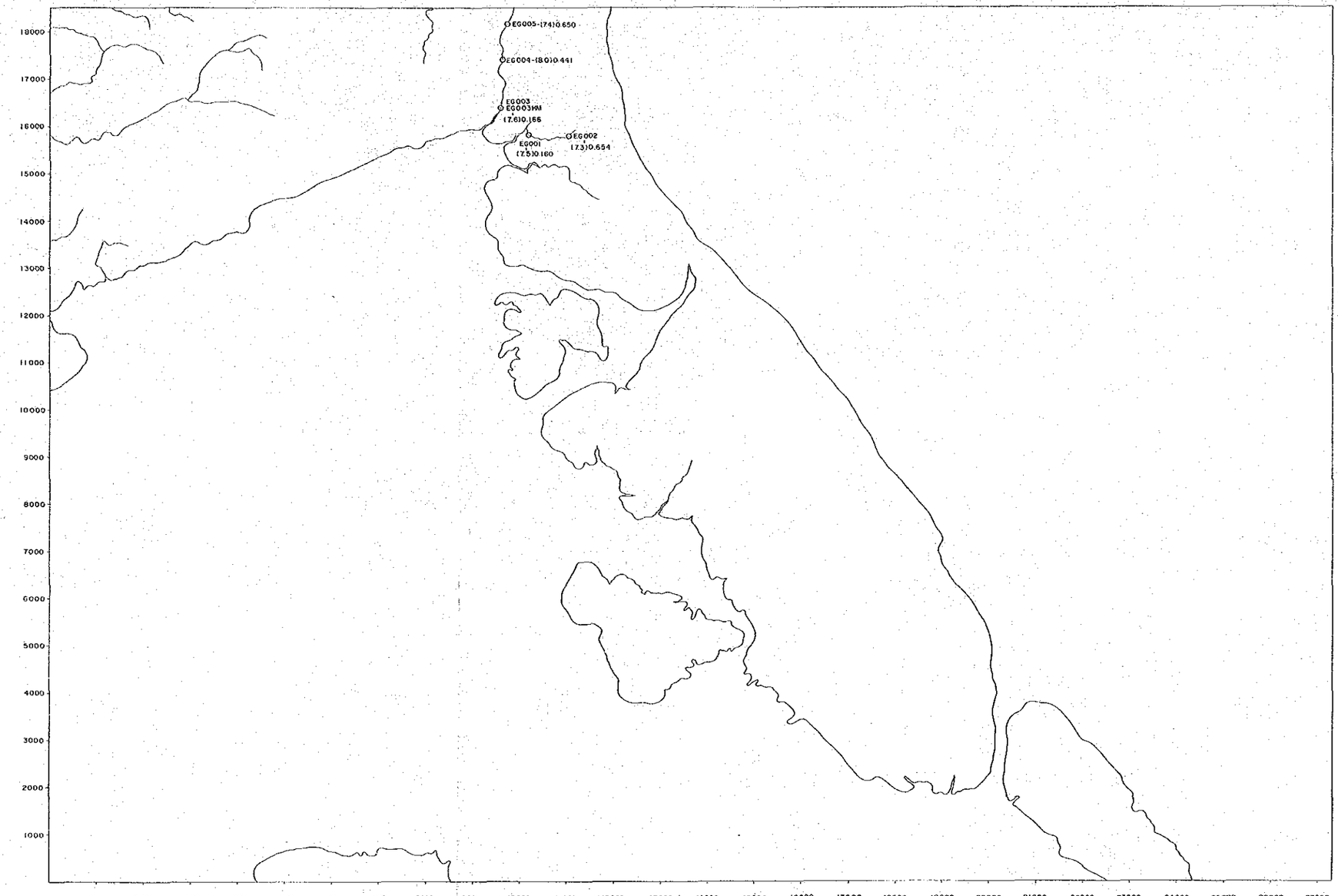
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

[8-48] : Sampling point (for laboratory work)

GUIUAN

SHEET 4153 III



N

THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
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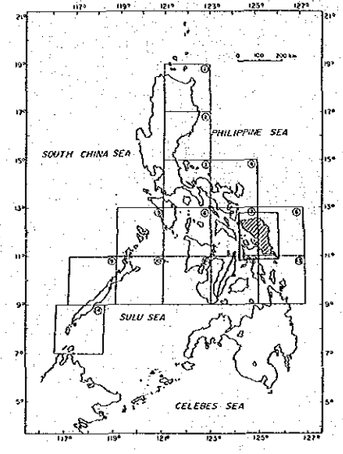
PHASE IV

SAMPLING POINTS, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

SAMAR I ~ III AREA

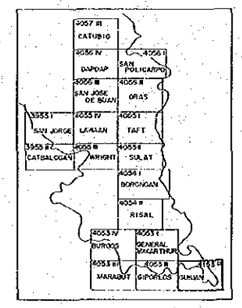


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Mar. 1988

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

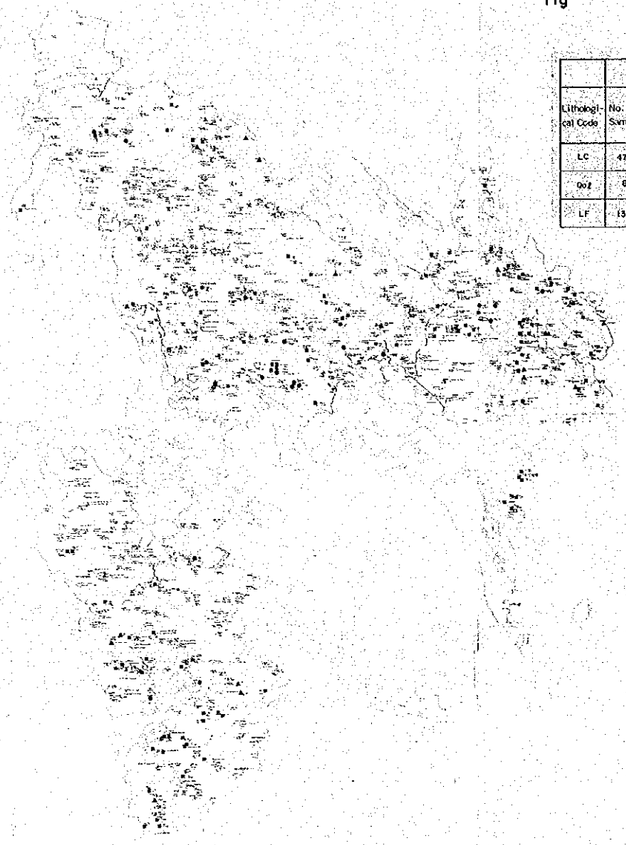
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-46 : Sampling point (for laboratory work)

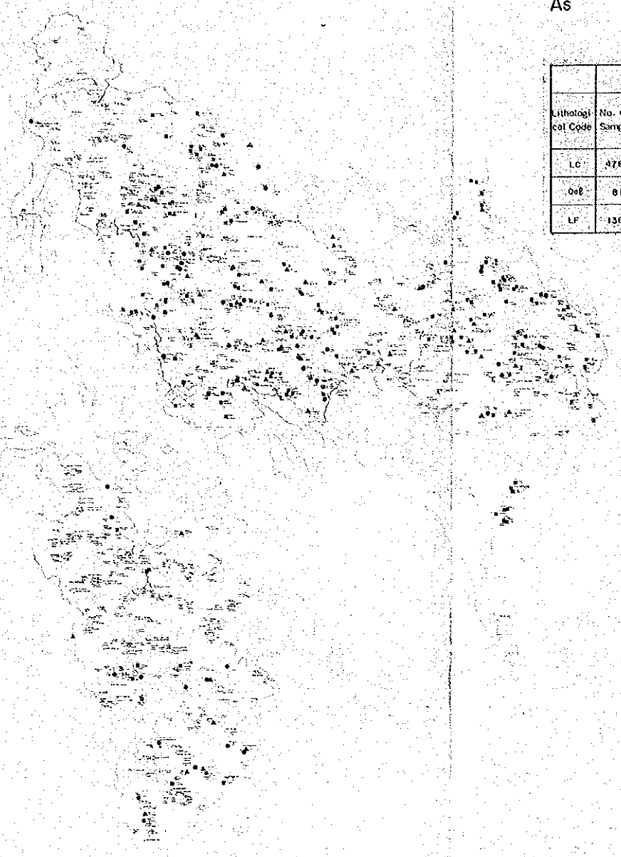
W

	Statistical Classification Table					
Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly	Probably	Highly
				ppm	ppm	ppm
Lc	478	1.50	1.57	1.55 ~ 1.56	1.57 ~ 1.58	1.59 ~
Gsz	81	1.50	1.50	—	—	—
Lf	136	1.50	1.50	—	—	—



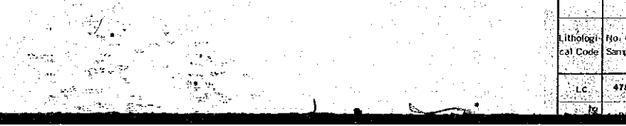
Hg

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppb	Threshold Value ppb	Anomaly		
				Possibly ppb	Probably ppb	Highly ppb
LC	478	30	44	39 ~ 43	44 ~ 60	61 ~
Qal	81	32	54	45 ~ 53	54 ~ 63	64 ~
LF	136	23	29	27 ~ 28	29 ~ 30	31 ~



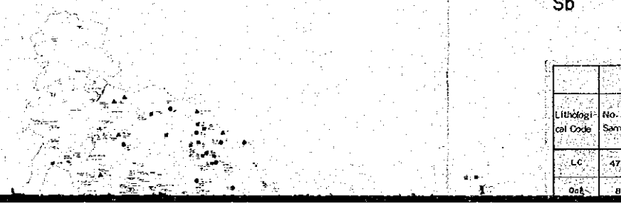
As

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly ppm	Probably ppm	Highly ppm
LC	478	3.7	6.06	6.14 ~ 6.05	6.06 ~ 7.14	7.15 ~
Qal	81	3.4	5.88	4.90 ~ 6.87	5.89 ~ 7.04	7.05 ~
LF	136	3.0	5.89	5.09 ~ 5.88	5.89 ~ 6.81	6.82 ~



Sn

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly ppm	Probably ppm	Highly ppm
LC	478	0.50	0.62	0.58 ~ 0.61	0.62 ~ 0.65	0.66 ~
Qal	81			0.57	0.60	



Sb

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppb	Threshold Value ppb	Anomaly		
				Possibly ppb	Probably ppb	Highly ppb
LC	478	236	391	350 ~ 390	391 ~ 462	463 ~
Qal	81	232	412	341 ~	413 ~	501 ~

As

Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Statistical Classification Table: Anomaly Possibly ppm	Probably ppm	Highly ppm
LC	478	3.7	6.08	5.14 ~ 6.05	6.06 ~ 7.14	7.15 ~
Qal	81	5.4	5.88	4.90 ~ 5.87	5.88 ~ 7.04	7.05 ~
LF	136	5.8	6.89	6.09 ~ 6.80	6.89 ~ 6.81	6.82 ~

Zn

Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Statistical Classification Table: Anomaly Possibly ppm	Probably ppm	Highly ppm
LC	478	20.1	33.30	28.14 ~ 33.29	33.30 ~ 39.39	39.40 ~
Qal	81	17.5	30.24	25.20 ~ 30.23	30.24 ~ 36.28	36.28 ~
LF	136	17.8	26.69	23.32 ~ 26.68	26.69 ~ 30.53	30.84 ~

Sb

Lithological Code	No. of Sample	Mean Value ppb	Threshold Value ppb	Statistical Classification Table: Anomaly Possibly ppb	Probably ppb	Highly ppb
LC	478	236	391	330 ~ 390	391 ~ 462	463 ~

Mn

Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Statistical Classification Table: Anomaly Possibly ppm	Probably ppm	Highly ppm
LC	478	223	464	363 ~ 463	464 ~ 591	592 ~
				274	340	

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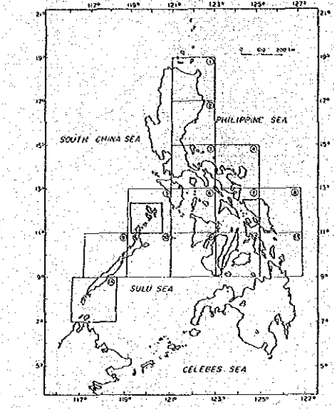
DISTRIBUTION GEOCHEMICAL ANOMALIES OF STREAM SEDIMENT SAMPLES(UNIVARIATE ANALYSIS)

PALAWAN V (BUSUANGA) AREA



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Mar. 1988

Cu

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly ppm	Probably ppm	Highly ppm
LC	478	12.5	19.390	16.75 ~ 19.38	19.39 ~ 22.14	22.45~
Qoz	81	10.6	15.71	13.76 ~ 15.70	15.71 ~ 17.90	17.91~
LF	136	8.5	12.75	11.14 ~ 12.74	12.75 ~ 14.58	14.59 ~

Pb

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly ppm	Probably ppm	Highly ppm
Lc	478	5.1	5.49	5.15 ~ 5.48	5.49 ~ 5.61	5.62 ~
Qoz	81	5.4	6.23	5.94 ~ 6.22	6.23 ~ 6.52	6.53 ~

Scale 1 : 250,000

0 10 20km

Sn

Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Statistical Classification Table: Anomaly Possibly ppm	Probably ppm	Highly ppm
LC	478	0.50	0.62	0.58 ~ 0.61	0.62 ~ 0.65	0.66 ~
Qpf	81	0.50	0.60	0.57 ~ 0.59	0.60 ~ 0.63	0.64 ~
LF	136	0.50	0.59	0.56 ~ 0.58	0.59 ~ 0.62	0.63 ~

Sb

Lithological Code	No. of Sample	Mean Value ppb	Threshold Value ppb	Statistical Classification Table: Anomaly Possibly ppb	Probably ppb	Highly ppb
LC	478	236	391	330 ~ 390	391 ~ 462	463 ~
Qpf	81	232	412	341 ~ 412	413 ~ 500	501 ~
LF	136	176	292	246 ~ 291	292 ~ 344	345 ~

Sb

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppb	Threshold Value ppb	Anomaly		
				Possibly	Probably	Highly
				ppb	ppb	ppb
LC	478	236	391	330 ~ 390	391 ~ 462	463 ~
Qal	81	232	412	341 ~ 412	413 ~ 500	501 ~
LF	136	175	292	246 ~ 291	292 ~ 344	345 ~

Mn

Lithological Code	Statistical Classification Table					
	No. of Sample	Mean Value ppm	Threshold Value ppm	Anomaly		
				Possibly	Probably	Highly
				ppm	ppm	ppm
LC	478	223	464	363 ~ 463	464 ~ 591	592 ~
Qal	81	178	340	274 ~ 339	340 ~ 421	422 ~
LF	136	186	341	279 ~ 340	341 ~ 418	419 ~

Pb

Lithological Code	No. of Sample	Mean Value ppm	Threshold Value ppm	Statistical Classification Table: Anomaly		
				Possibly ppm	Probably ppm	Highly ppm
Lc	479	5.1	5.49	5.13 ~ 5.48	5.49 ~ 5.61	5.62 ~
Qal	81	5.4	6.23	5.94 ~ 6.22	6.23 ~ 6.52	6.53 ~
LF	136	5.0	5.23	5.15 ~ 5.22	5.23 ~ 12.74	12.75 ~

Scale 1 : 250,000

0 10 20 km