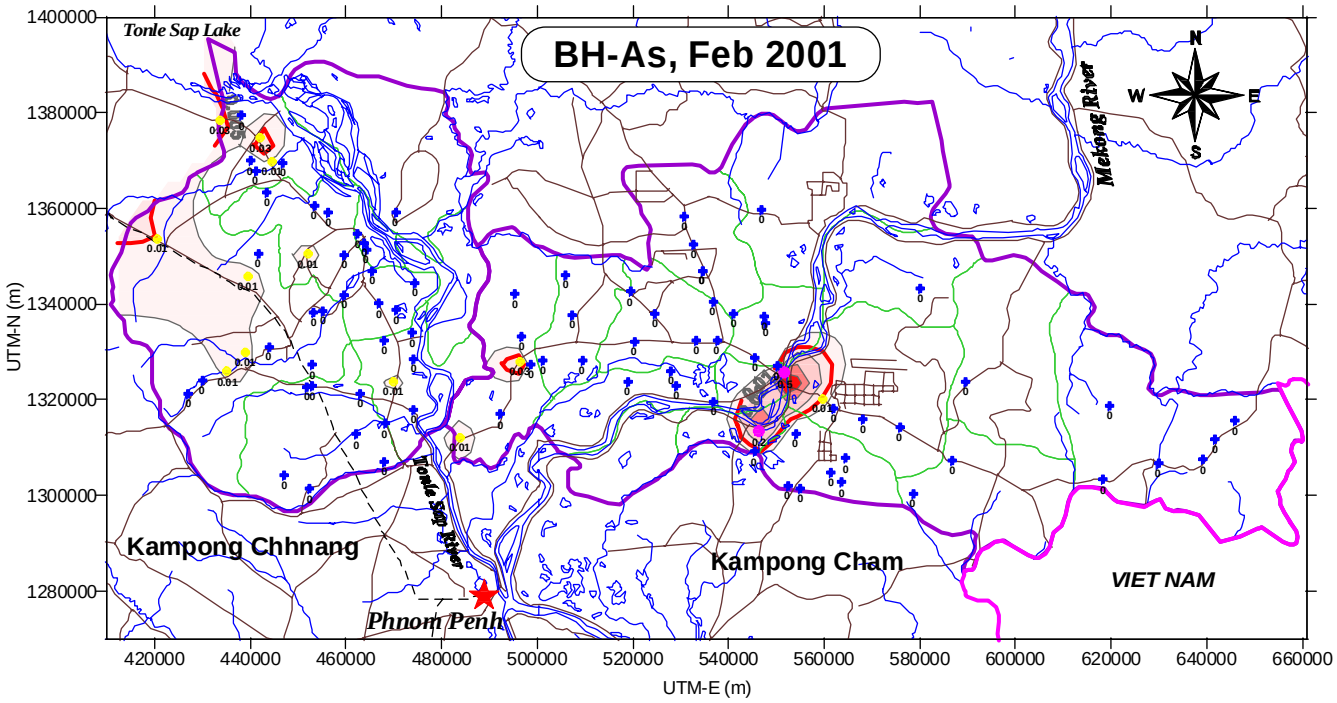
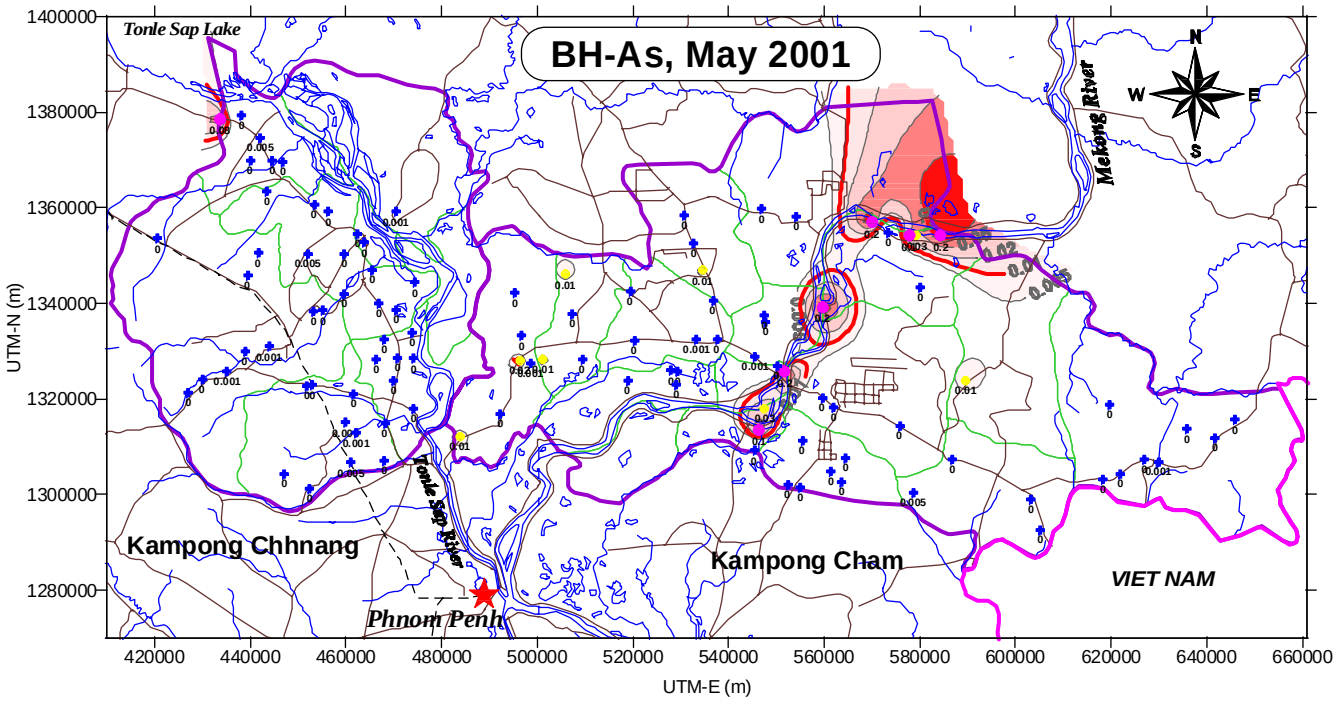




BH: Borehole Well

- As <= 0.01 mg/L
- 0.01 < As =< 0.05 mg/L
- 0.05 mg/L < As

Arsenic, As (mg/L)

0 | 0.005 | 0.01 | 0.02 | 0.05 | 0.1

(As Concentrations were measured by the AAN Field Kit in the field.)

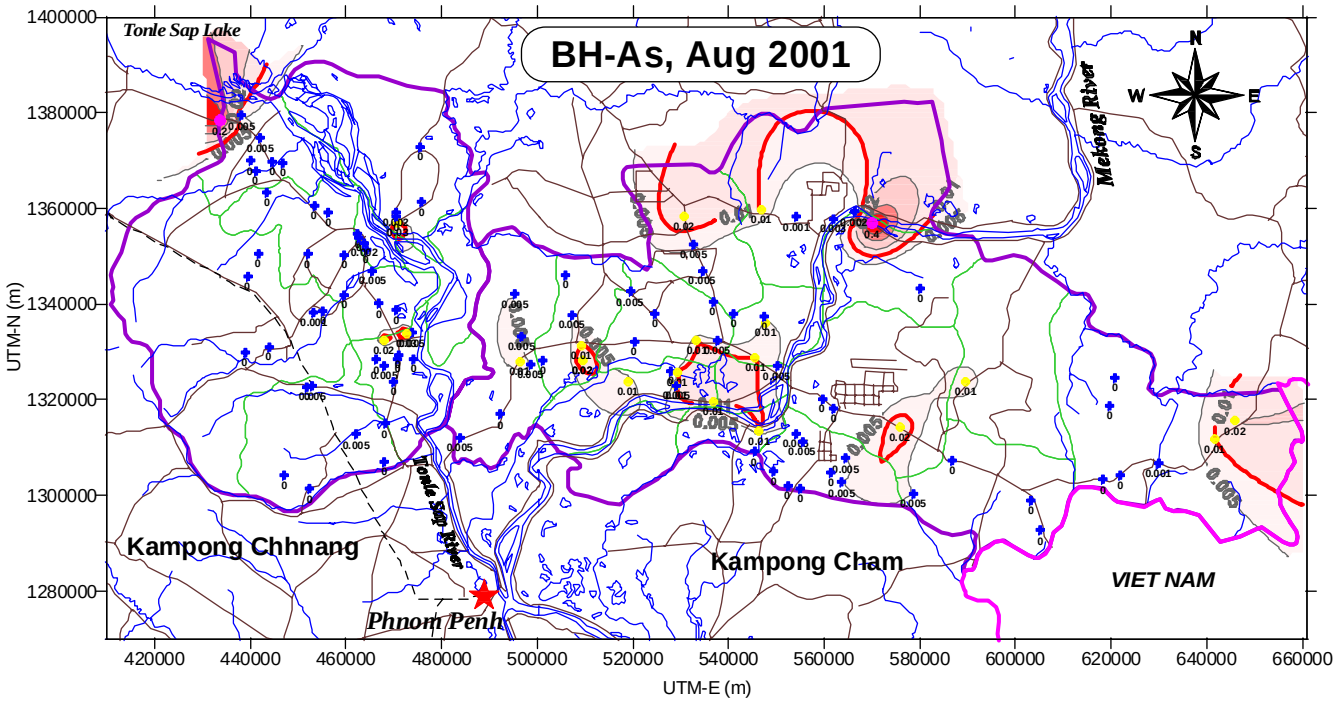
[WHO Guideline Value of As for Drinking Water is 0.01 mg/L.]

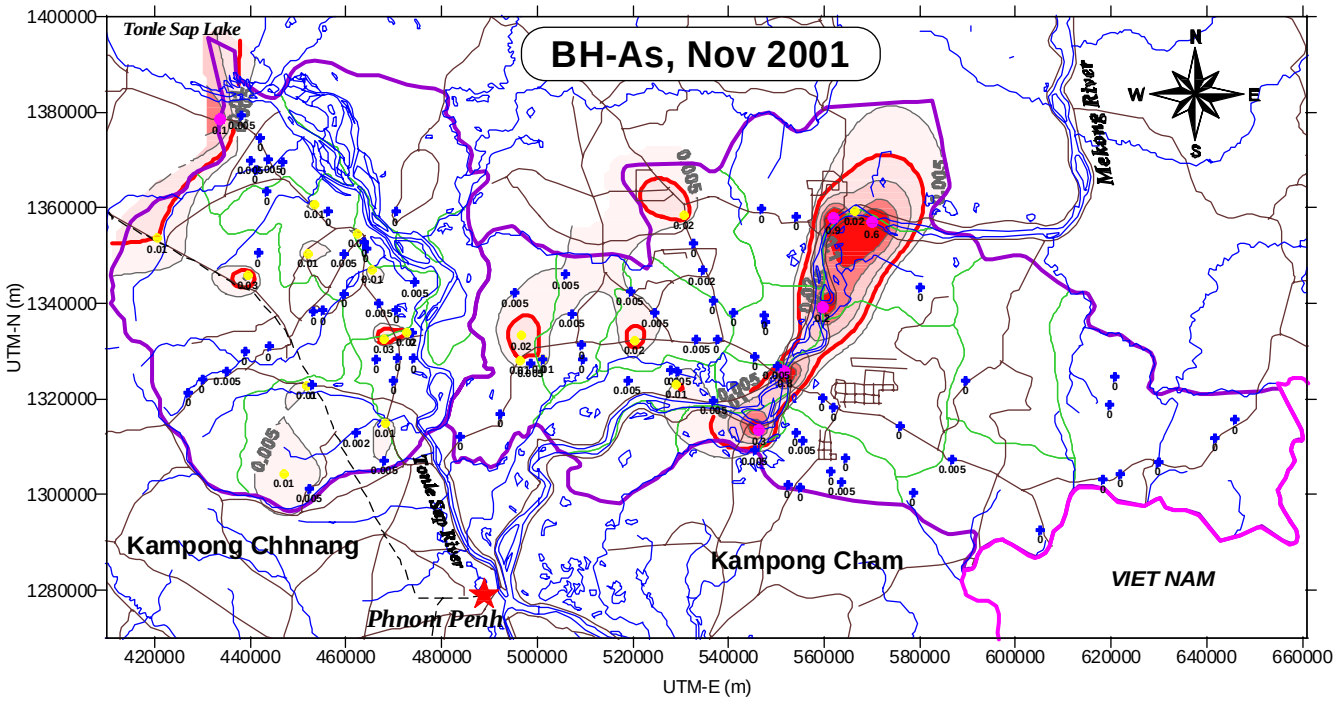
- Study Area
- District Boundary
- Road
- Rail
- River

Figure 4.4.4.31 Distribution of As Concentrations at Existing Borehole Wells (Feb 2001, May 2001)

THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)





BH: Borehole Well

- As <= 0.01 mg/L
- 0.01 < As =< 0.05 mg/L
- 0.05 mg/L < As

Arsenic, As (mg/L)

0 | 0.005 | 0.01 | 0.02 | 0.05 | 0.1

(As Concentrations were measured by the AAN Field Kit in the field.)

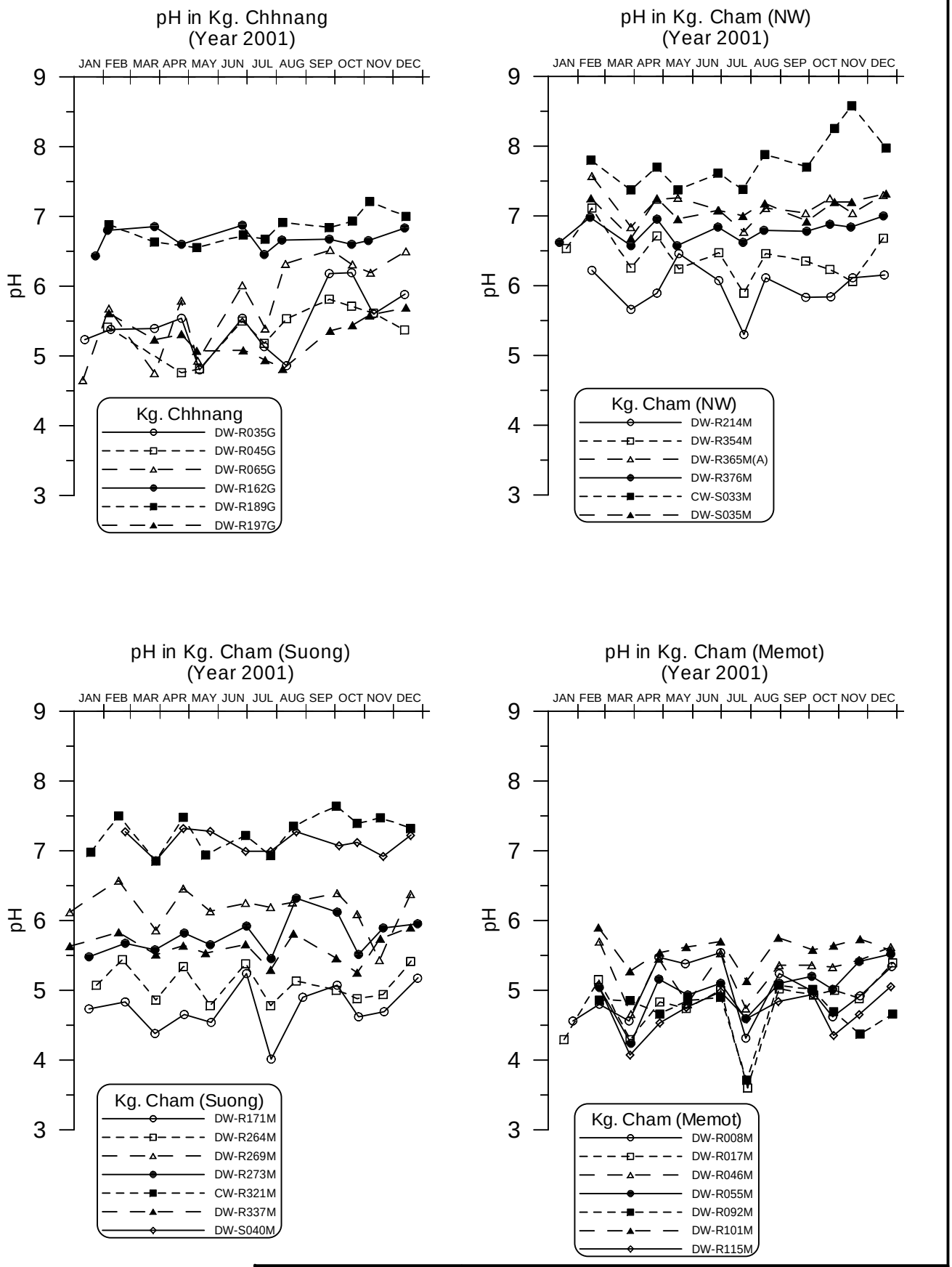
[WHO Guideline Value of As for Drinking Water is 0.01 mg/L.]

- Study Area
- District Boundary
- Road
- Rail
- River

Figure 4.4.4.32 **Distribution of As Concentrations at Existing Borehole Wells (Aug 2001, Nov 2001)**

THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

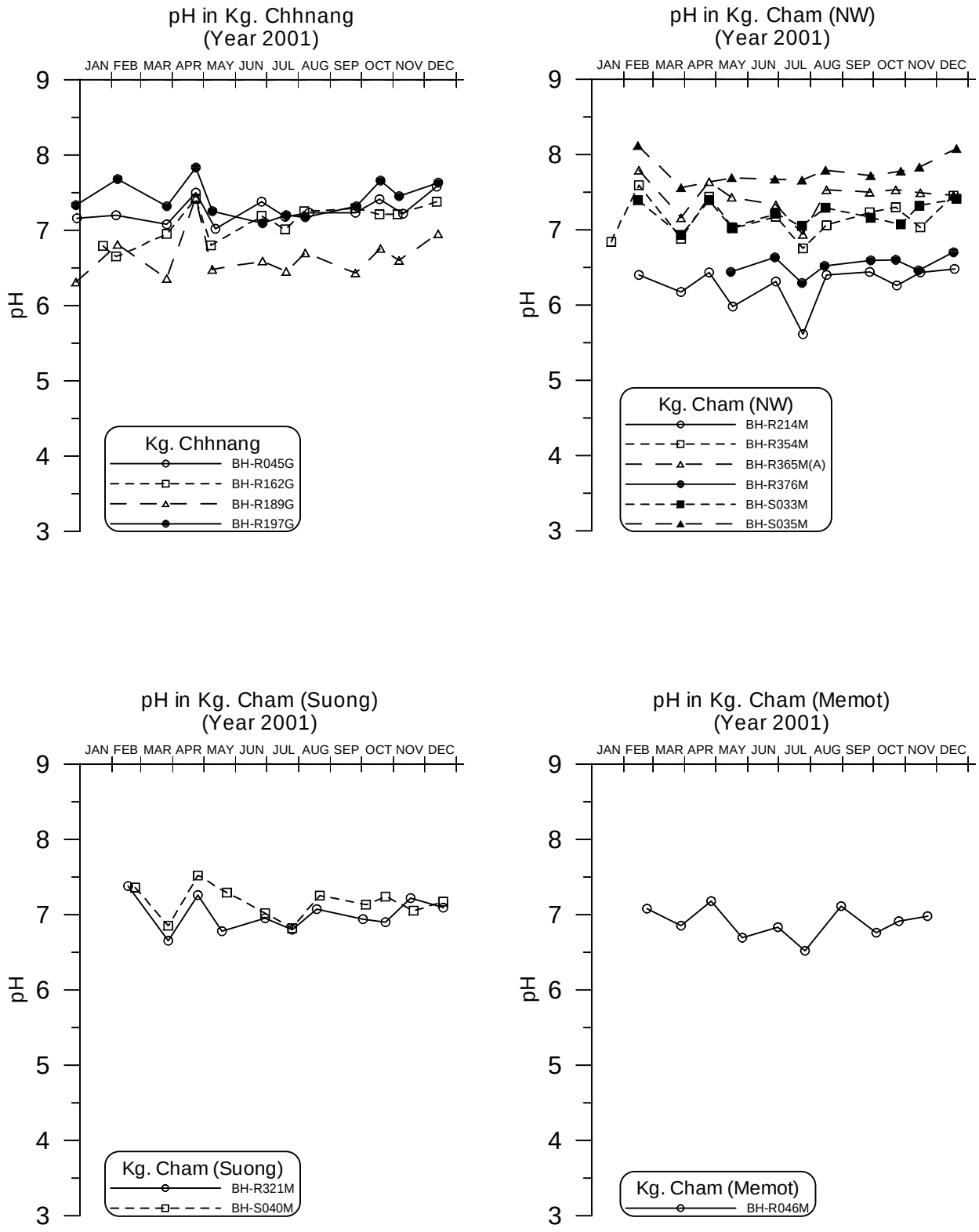


DW: Dug Well
CW: Combined Well

Figure 4.4.4.33 **Changes in pH at Existing Dug Wells and Combined Wells**

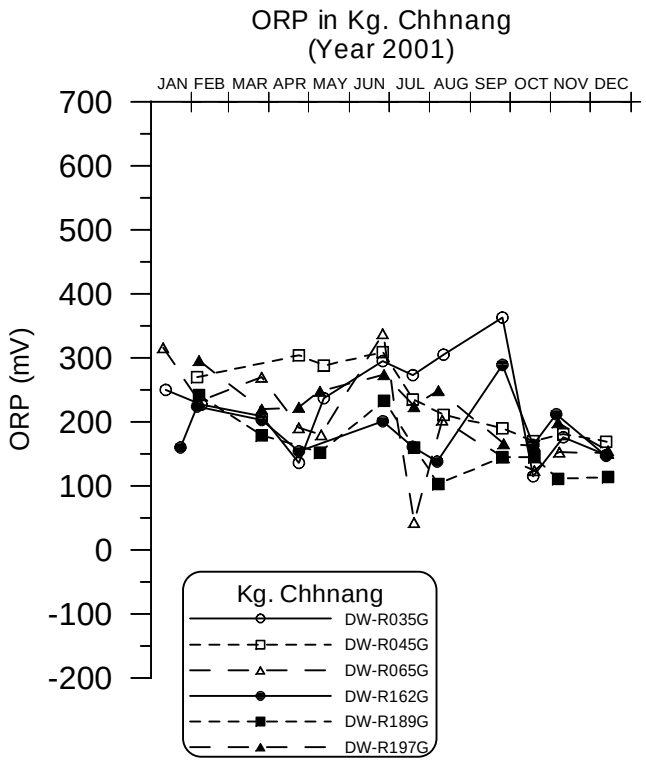
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

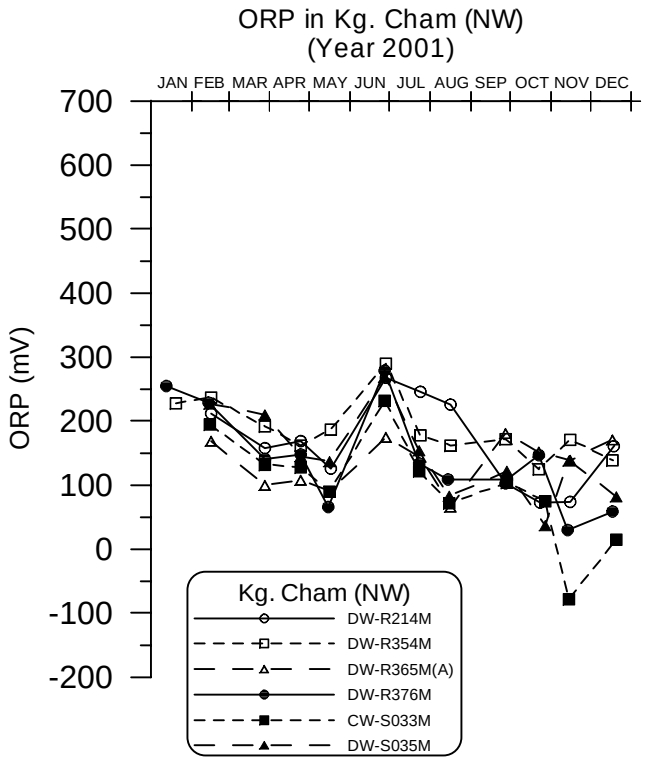
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

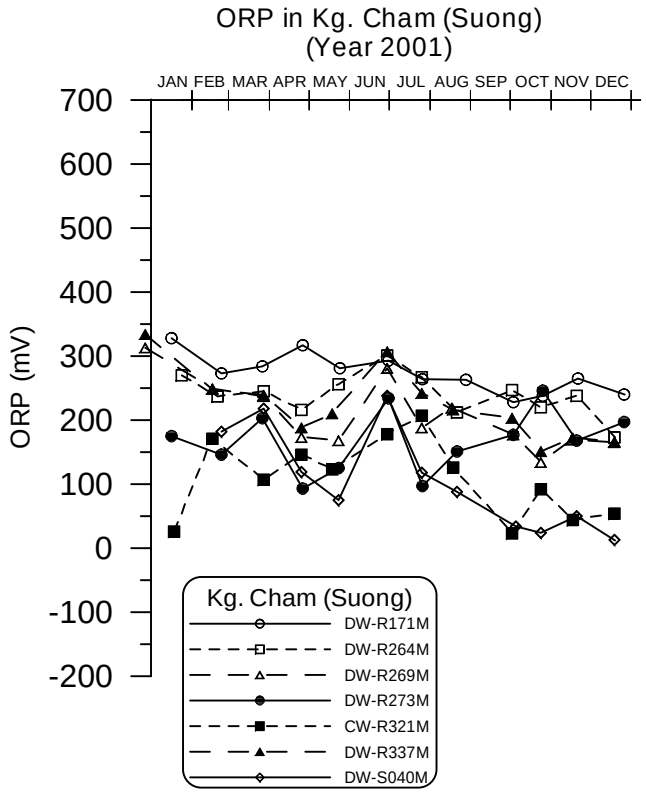


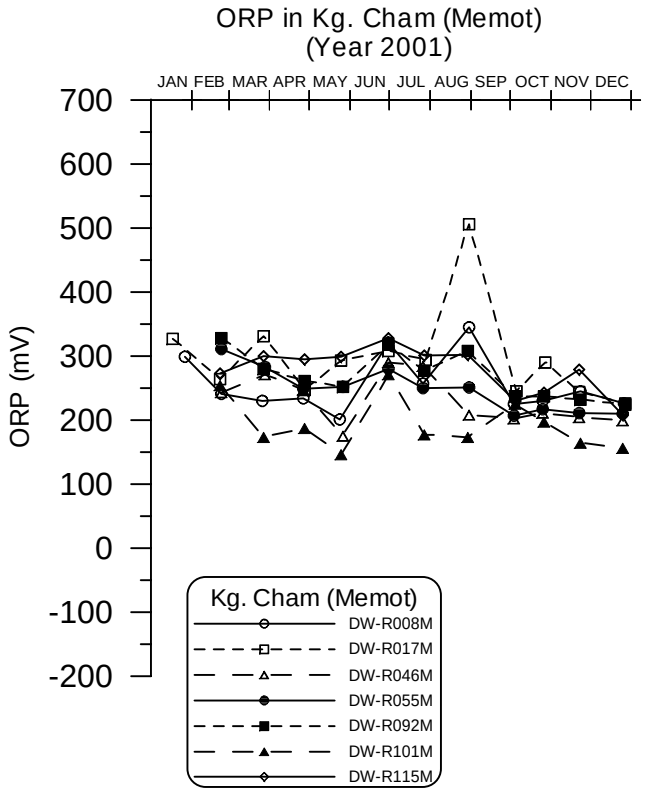
BH: Borehole Well

Figure 4.4.4.34	Changes in pH at Existing Borehole Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







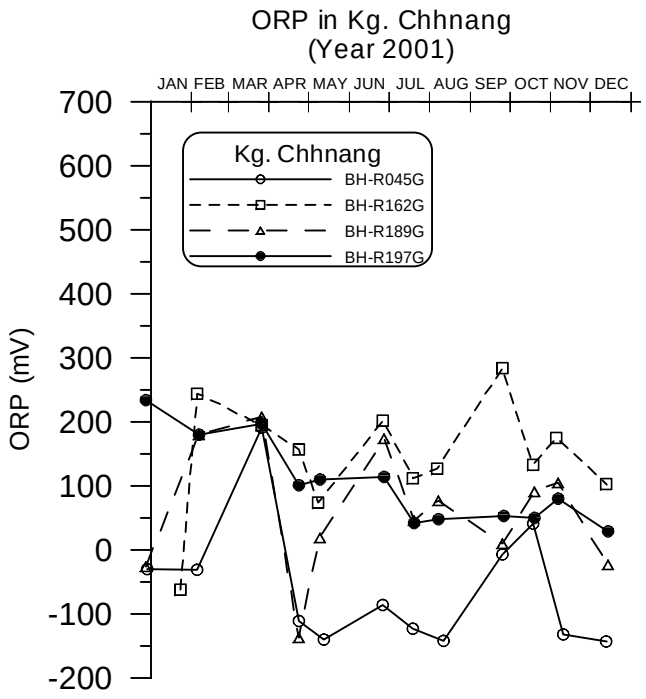


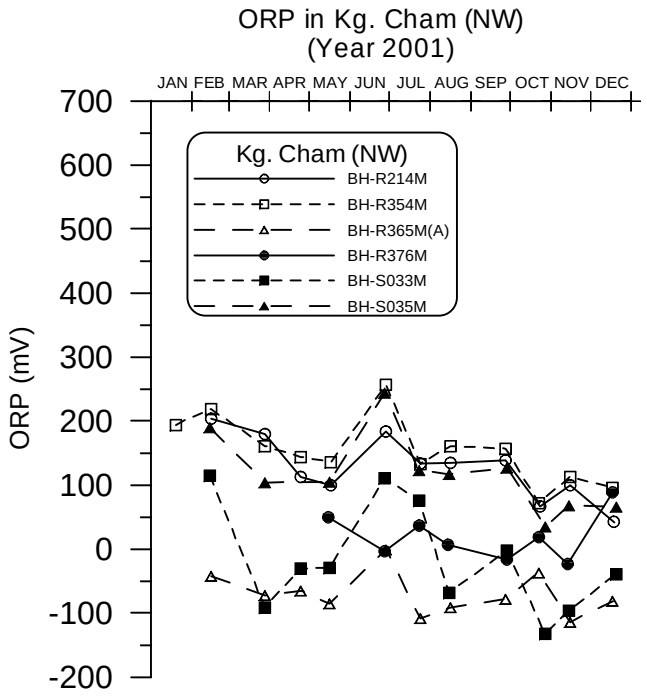
DW: Dug Well
CW: Combined Well

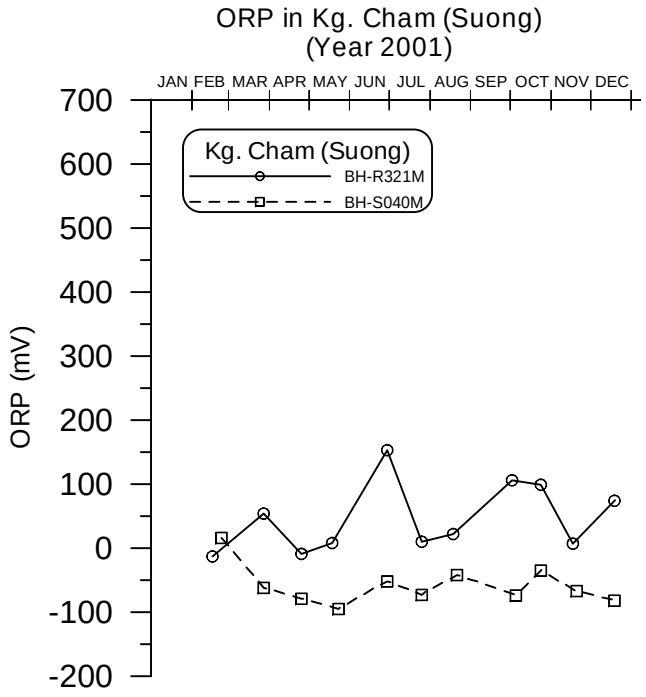
Figure 4.4.4.35 **Changes in Oxidation-Reduction Potential (ORP) at Existing Dug Wells and Combined Wells**

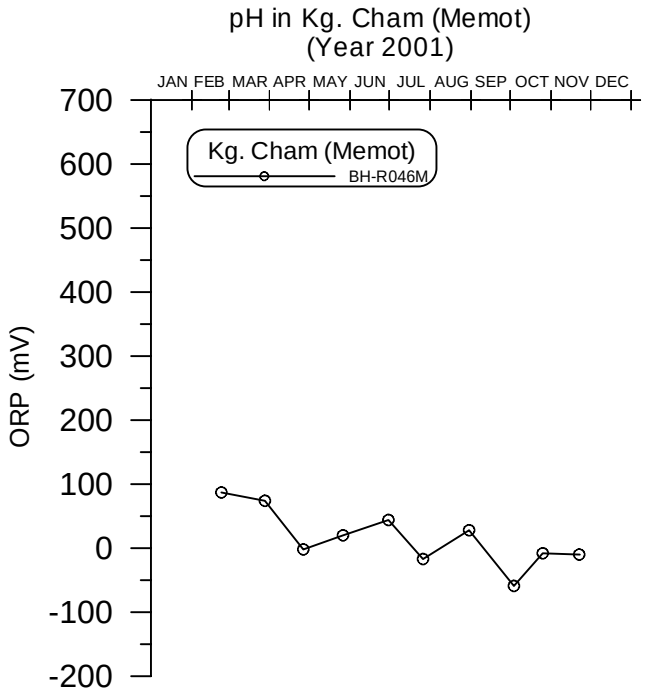
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



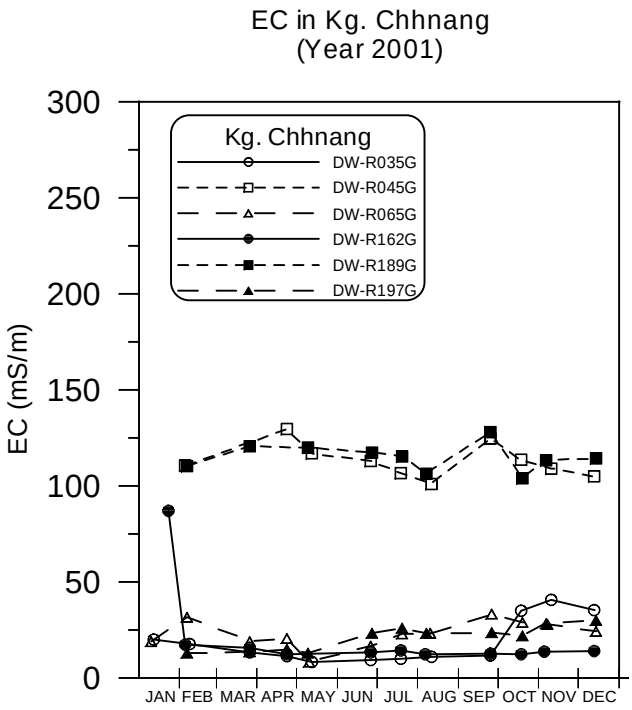


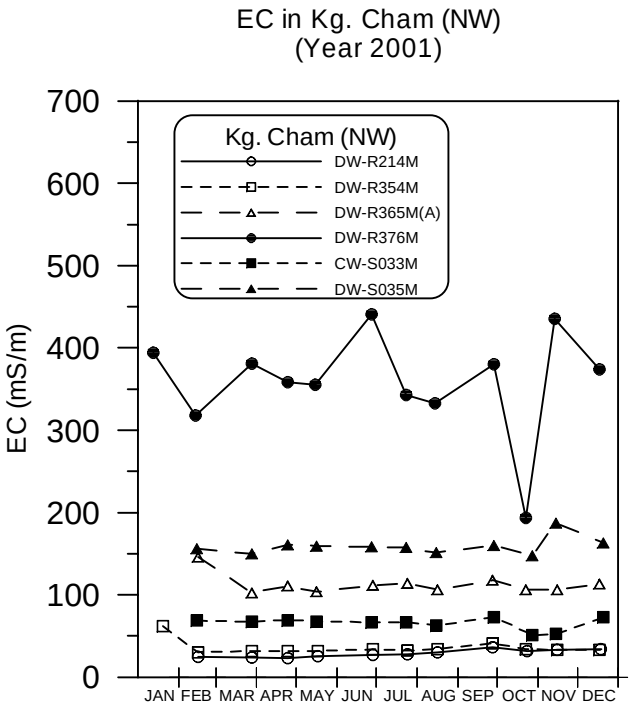


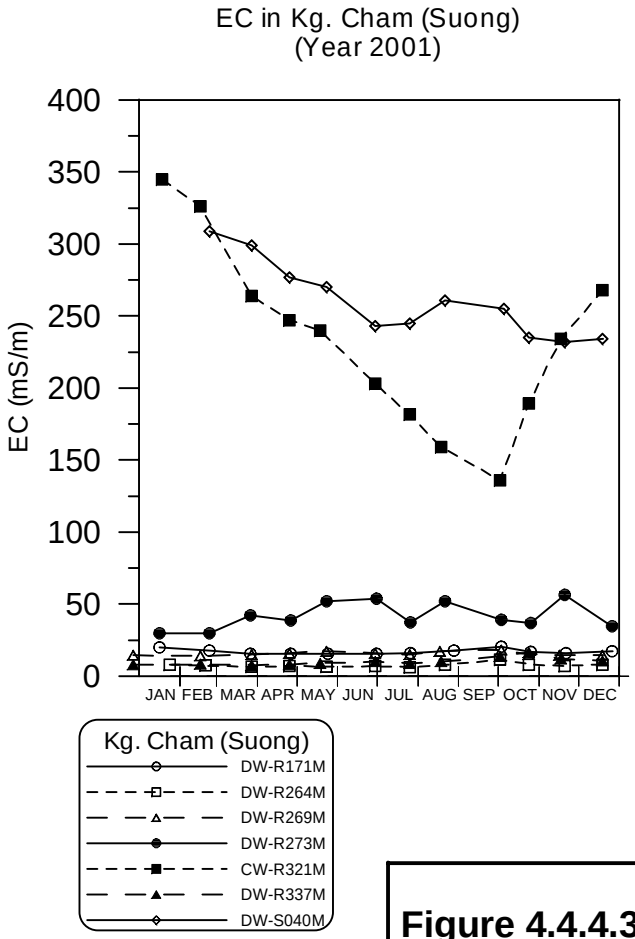


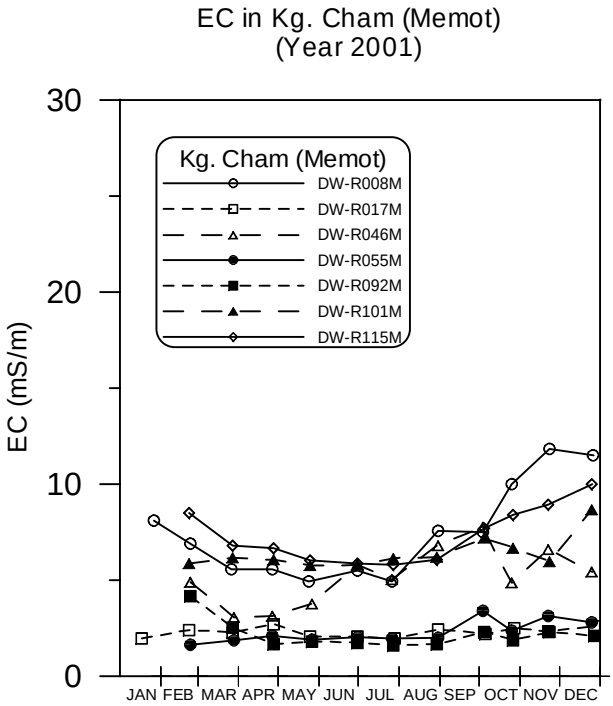
BH: Borehole Well

Figure 4.4.4.36	**Changes in Oxidation-Reduction Potential (ORP) at Existing Borehole Wells**
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



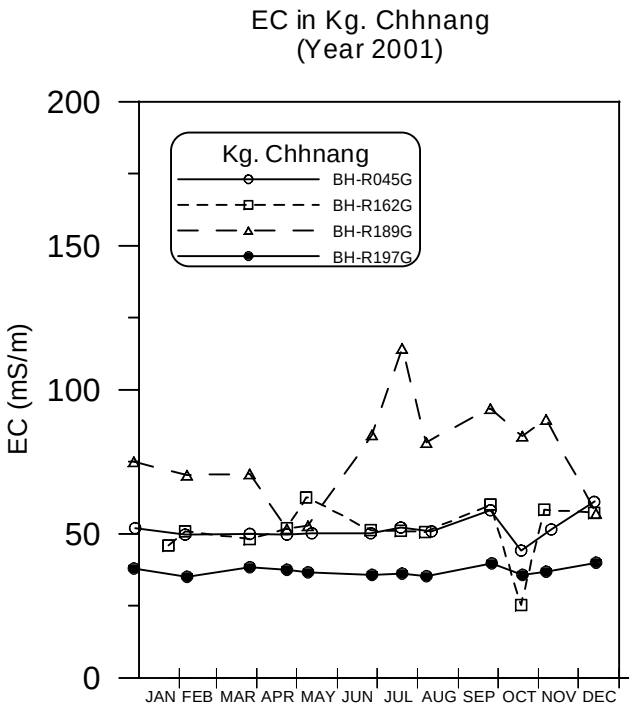


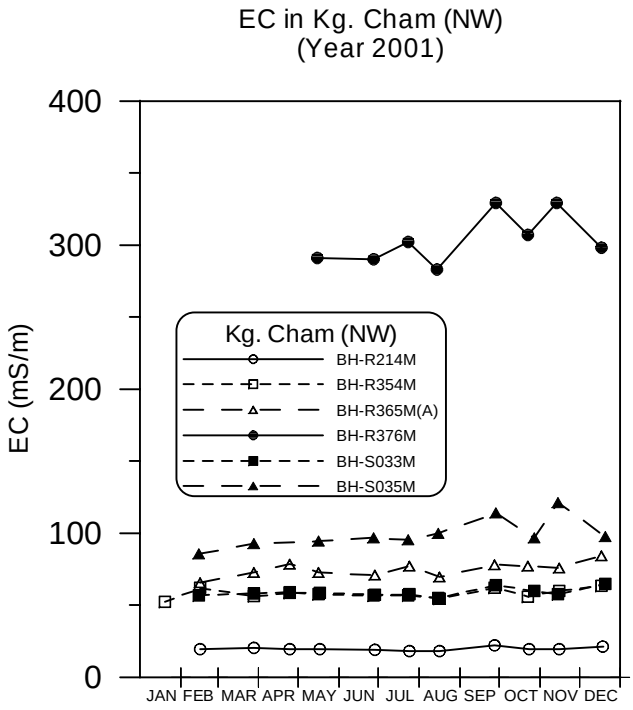


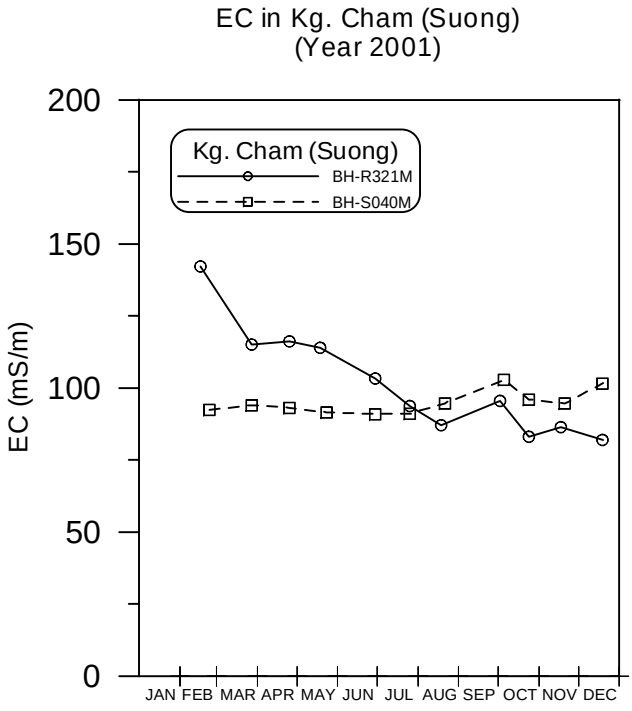


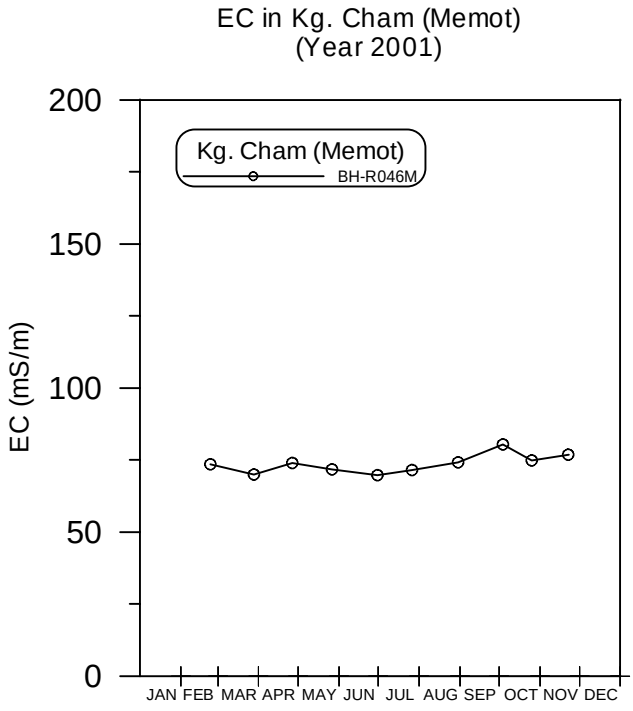
DW: Dug Well
CW: Combined Well

Figure 4.4.4.37	**Changes in Electric Conductivity (EC) at Existing Dug Wells and Combined Wells**
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



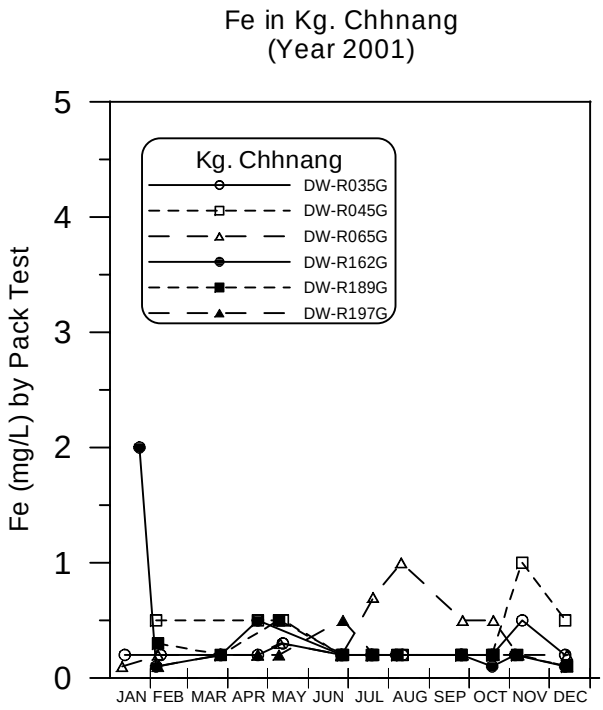


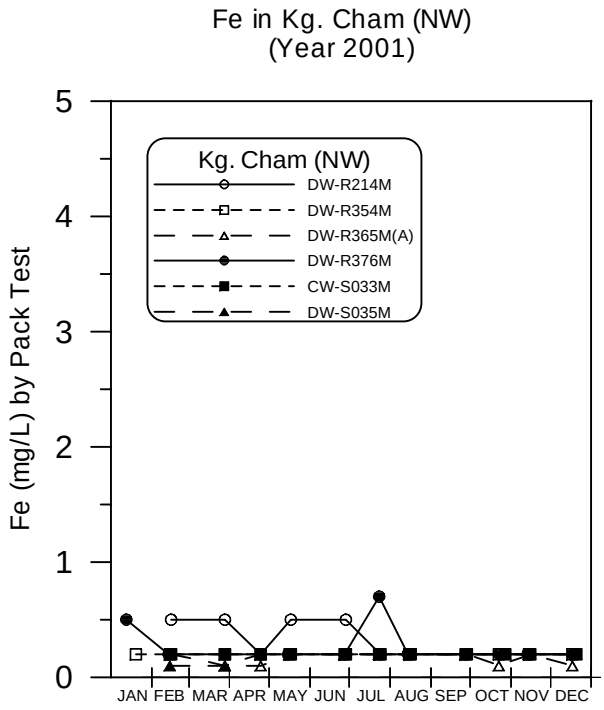


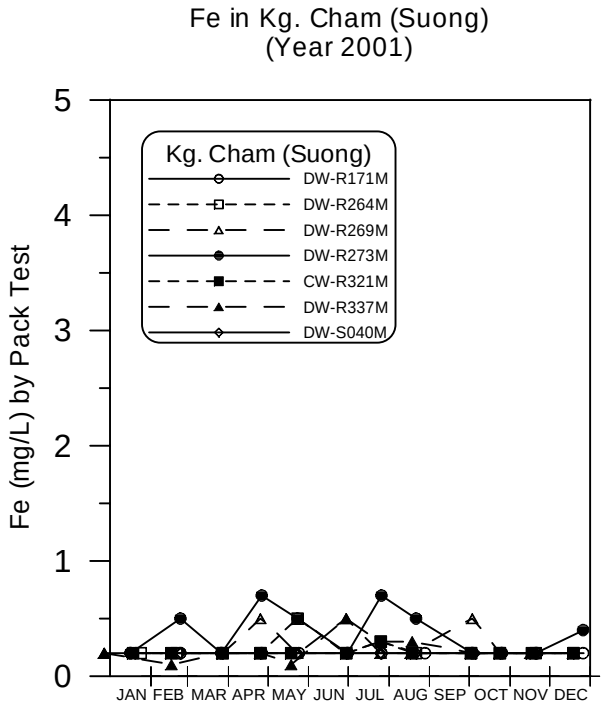


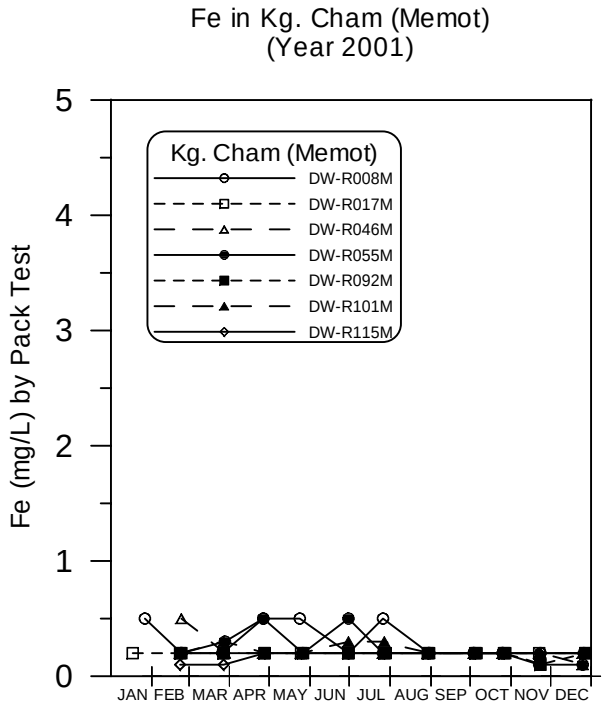
BH: Borehole Well

Figure 4.4.4.38	**Changes in Electric Conductivity (EC) at Existing Borehole Wells**
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







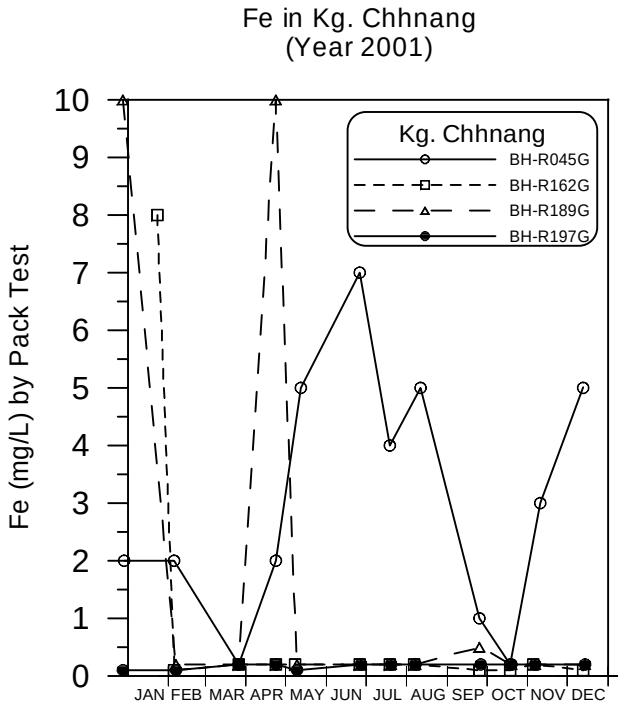


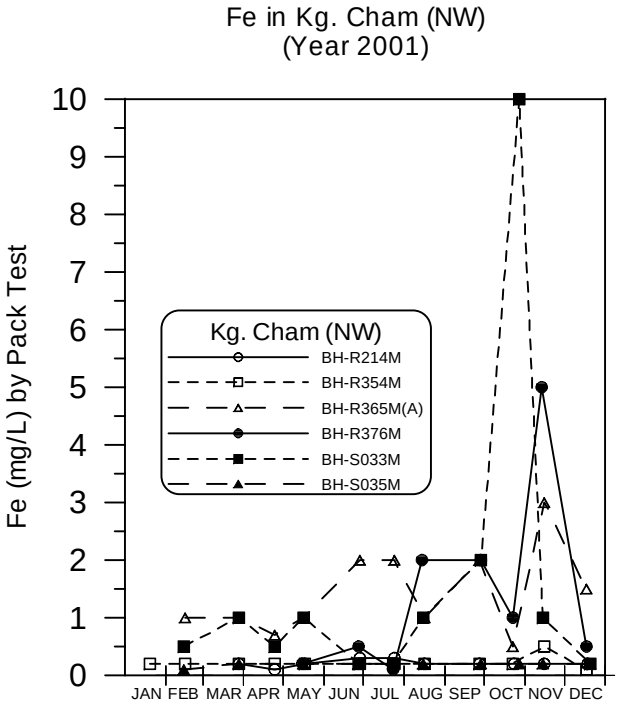
DW: Dug Well
CW: Combined Well

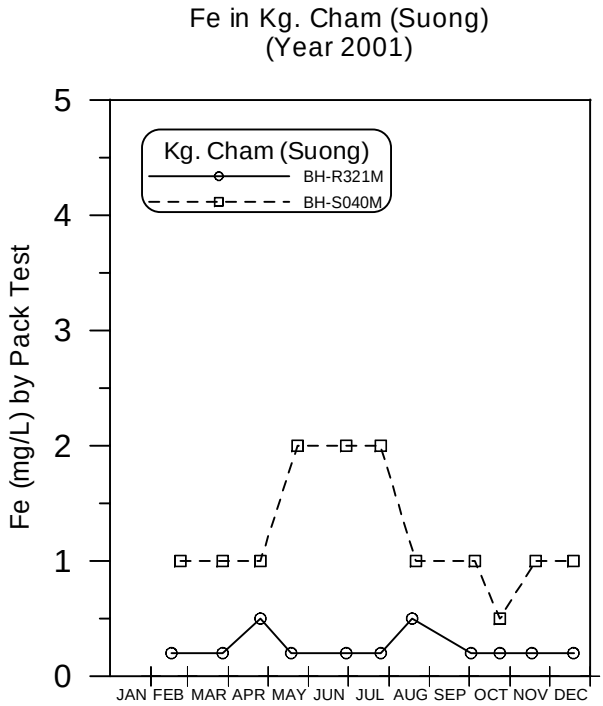
Figure 4.4.4.39 **Changes in Fe Concentrations at Existing Dug Wells and Combined Wells**

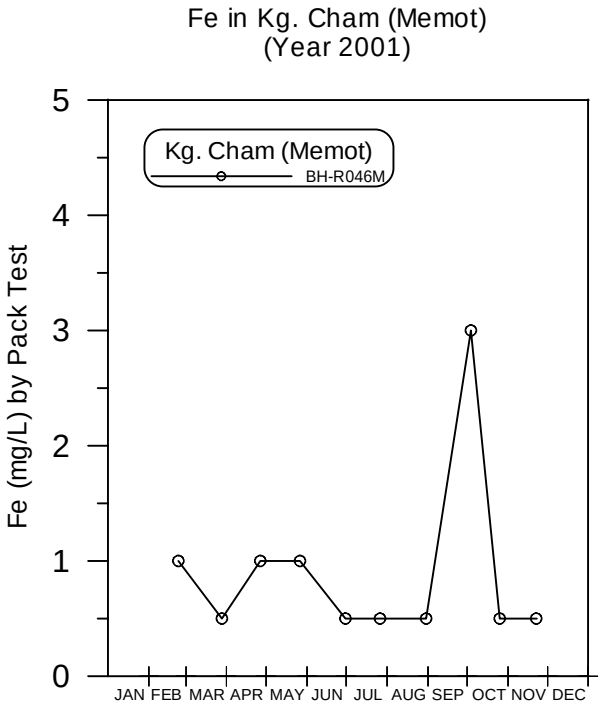
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)







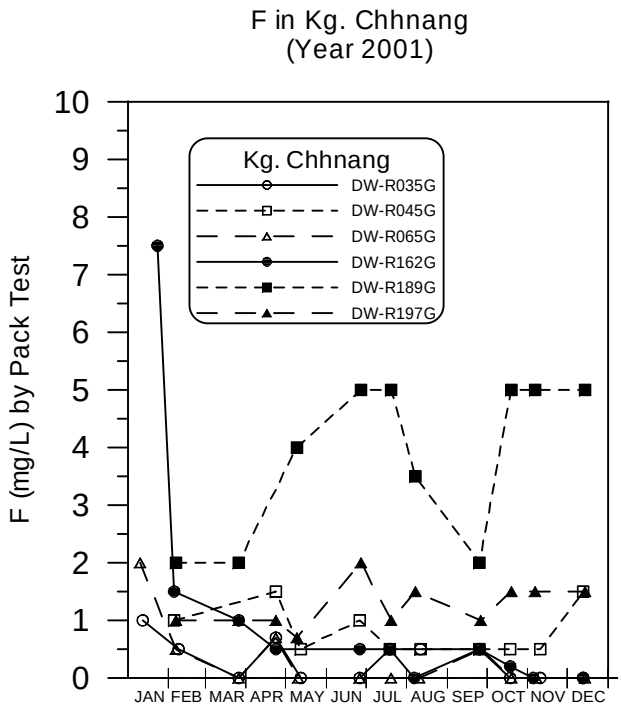


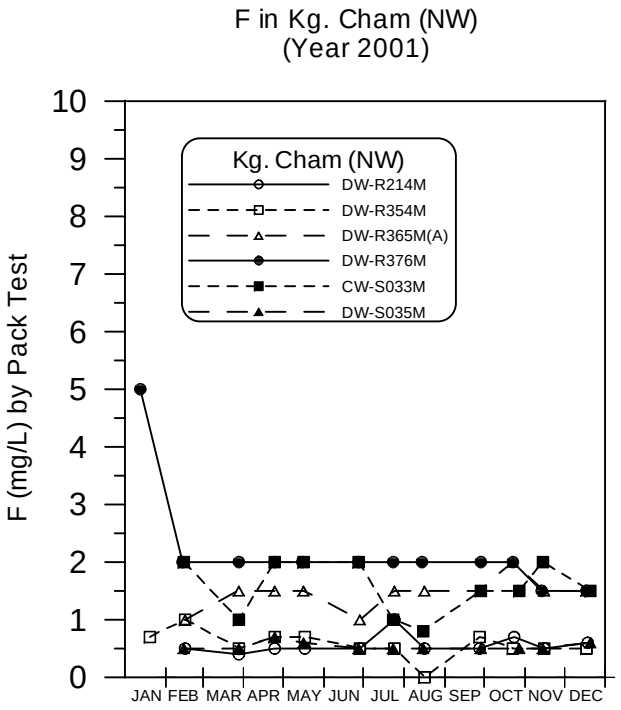
BH: Borehole Well

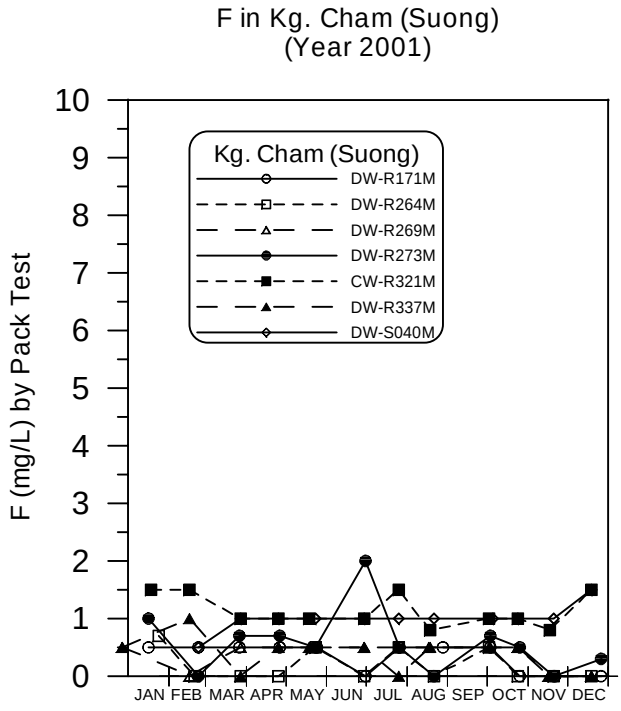
Figure 4.4.4.40 **Changes in Fe Concentrations at Existing Borehole Wells**

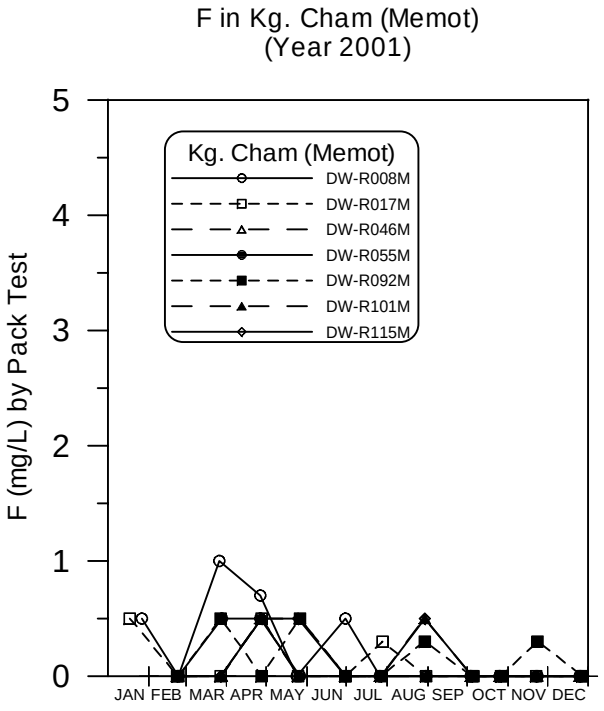
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)







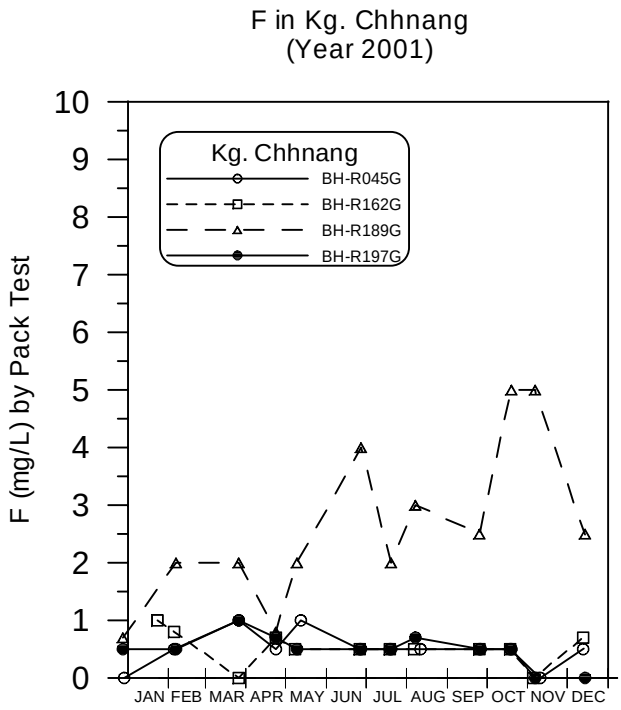


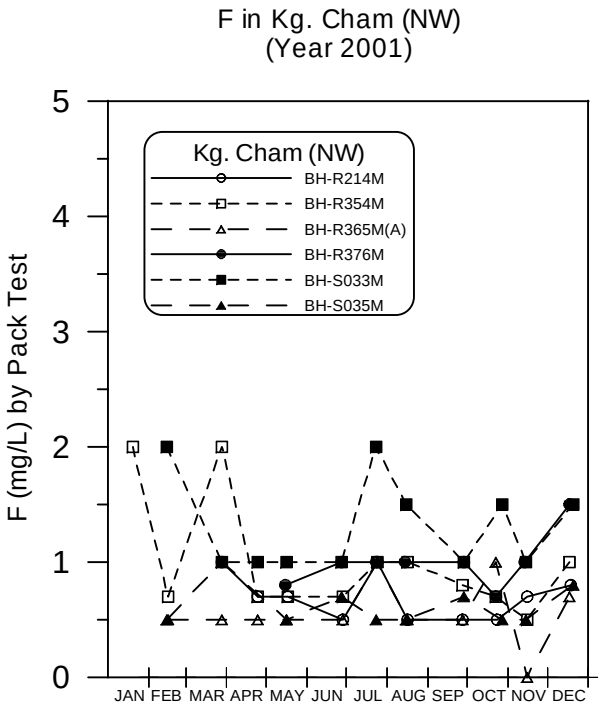
DW: Dug Well
CW: Combined Well

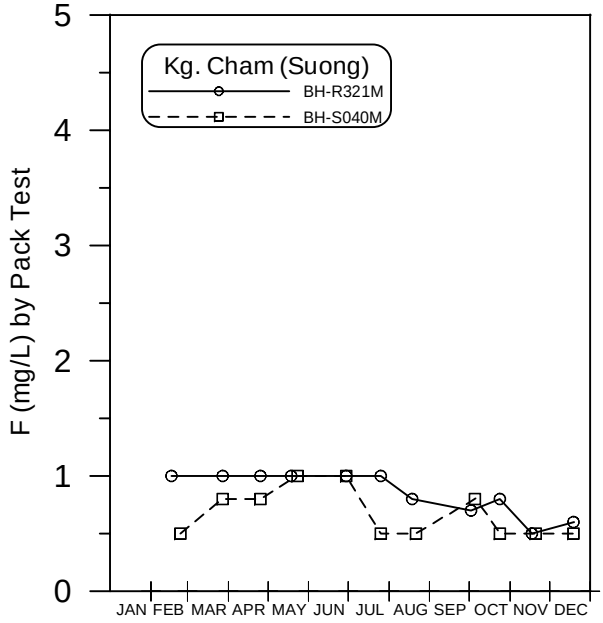
Figure 4.4.4.41 **Changes in F Concentrations at Existing Dug Wells and Combined Wells**

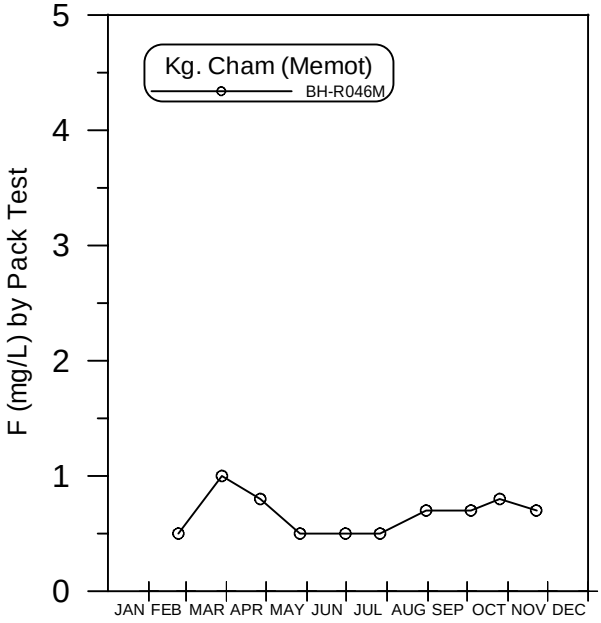
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



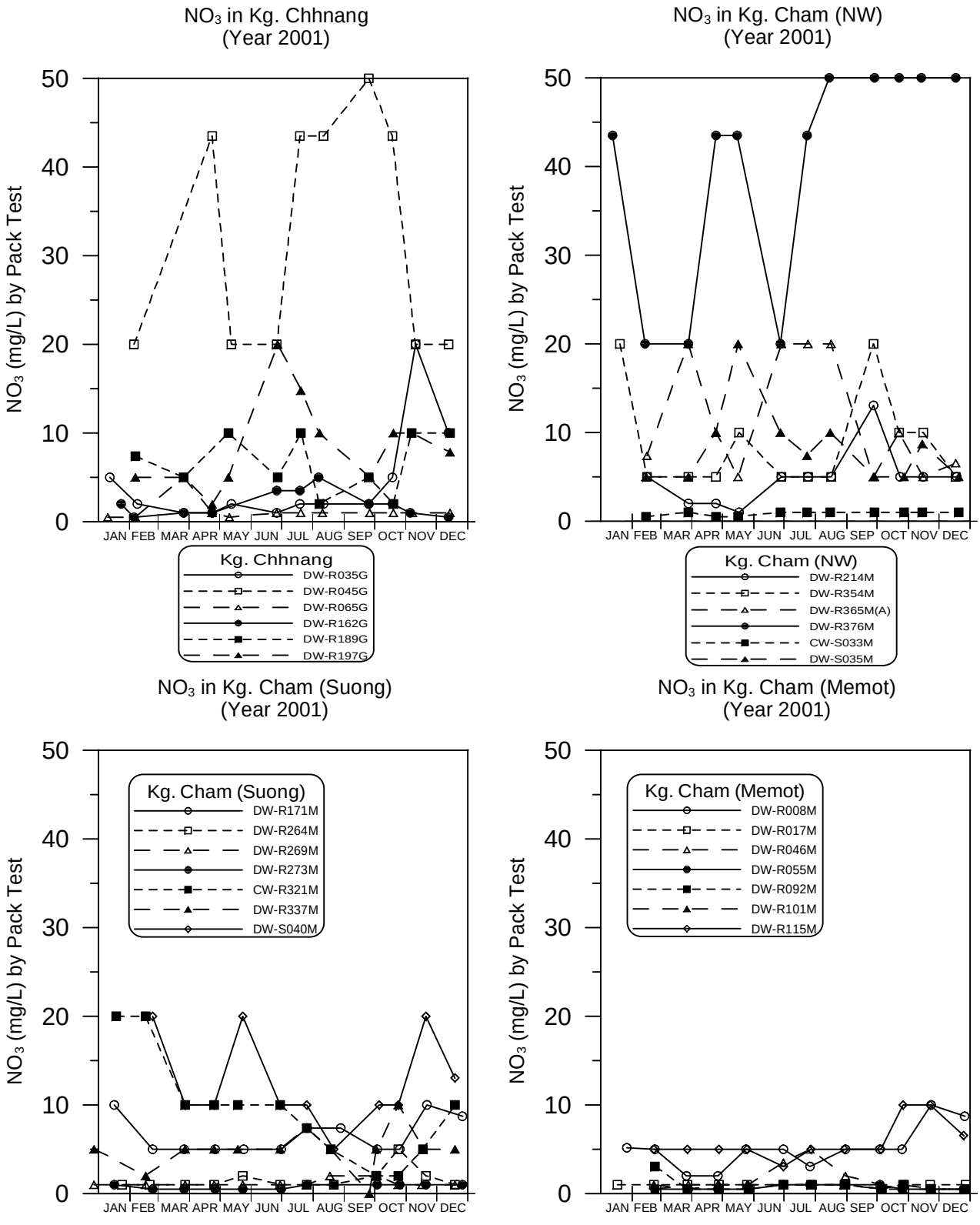






BH: Borehole Well

Figure 4.4.4.42	Changes in F Concentrations at Existing Borehole Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

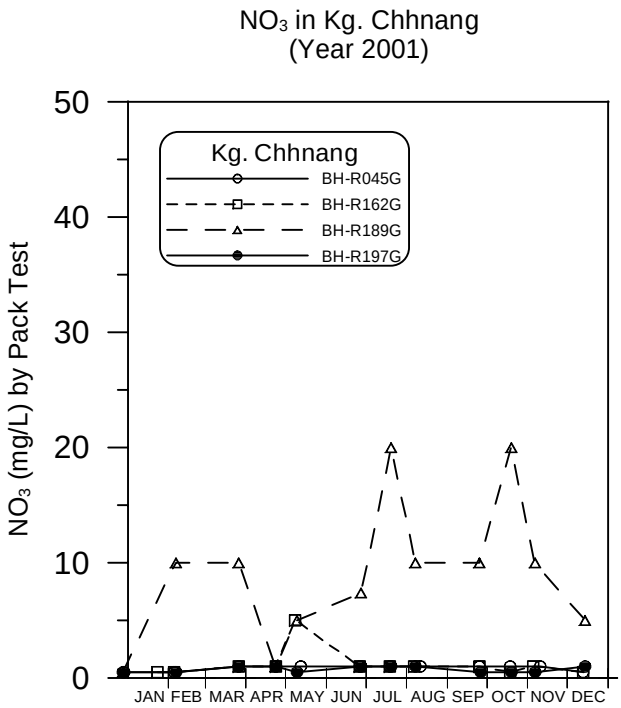


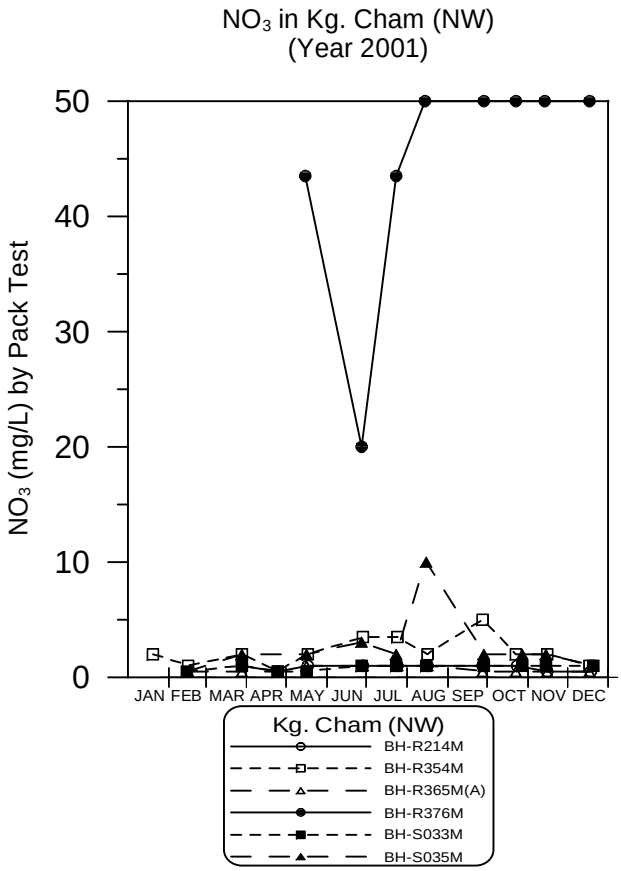
DW: Dug Well
CW: Combined Well

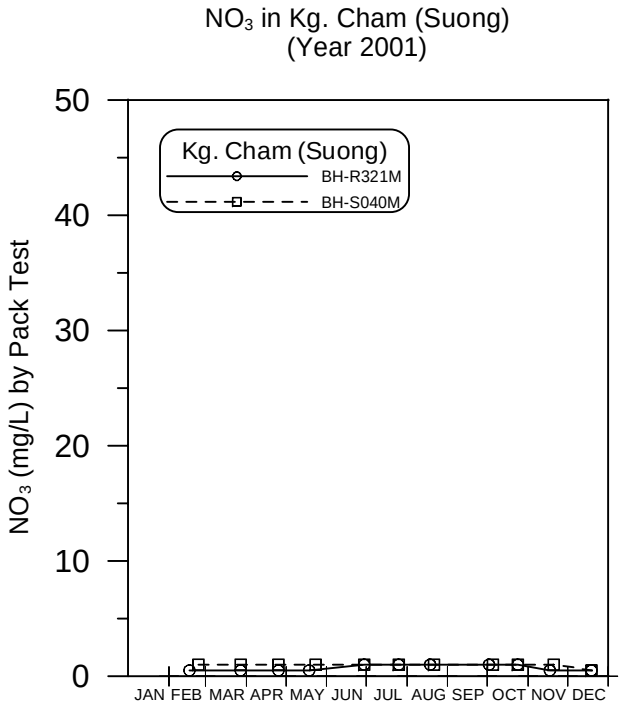
Figure 4.4.4.43 **Changes in NO_3 Concentrations at Existing Dug Wells and Combined Wells**

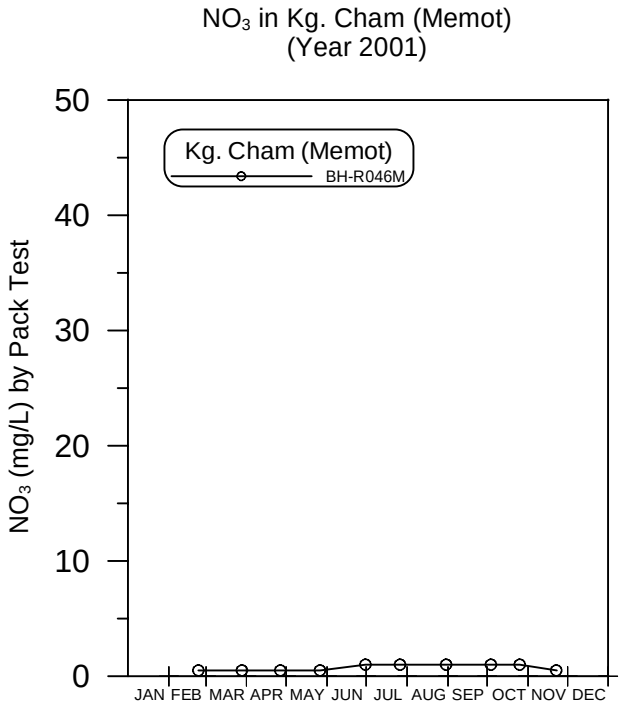
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)







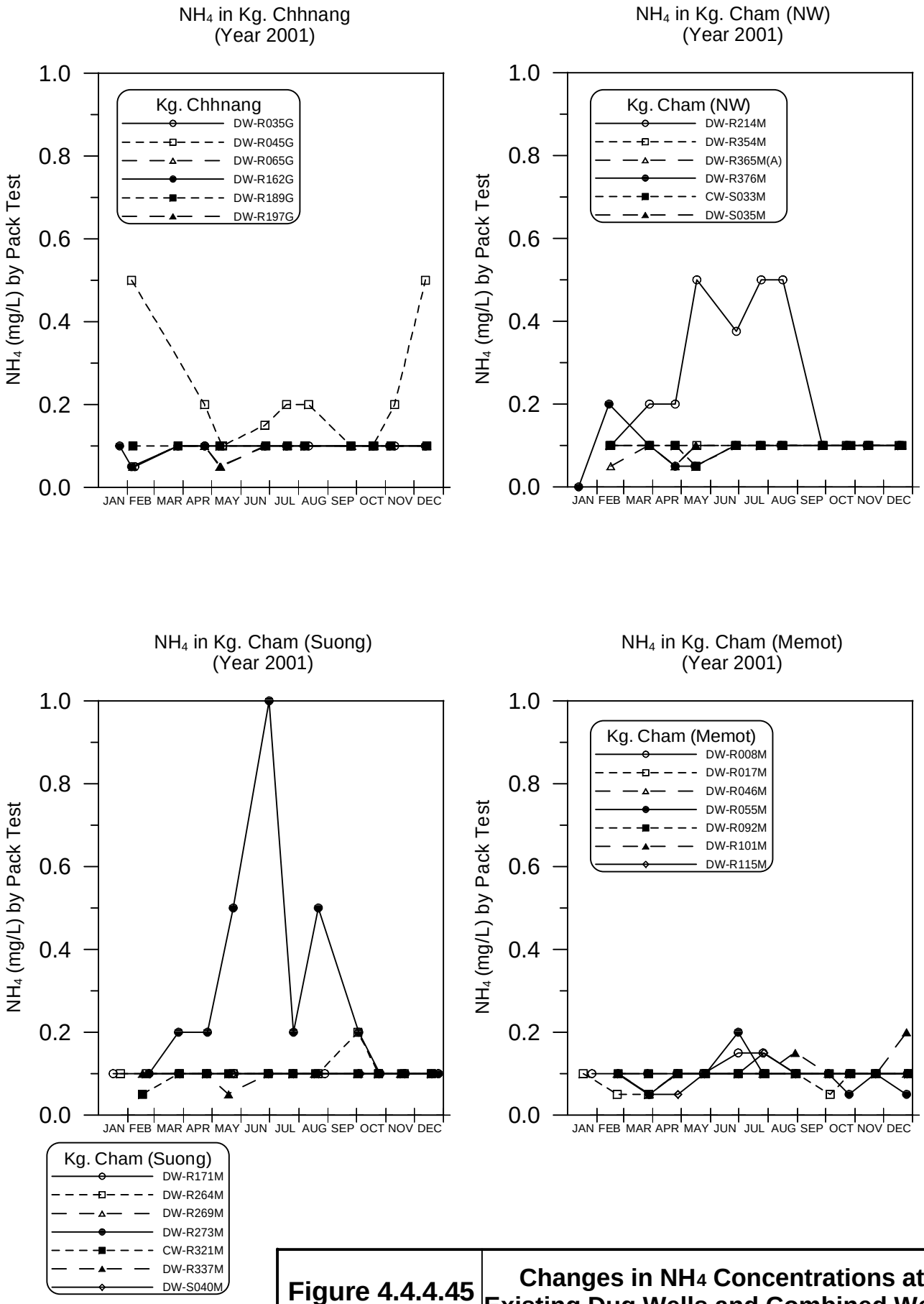


BH: Borehole Well

Figure 4.4.4.44 **Changes in NO_3 Concentrations at Existing Borehole Wells**

THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

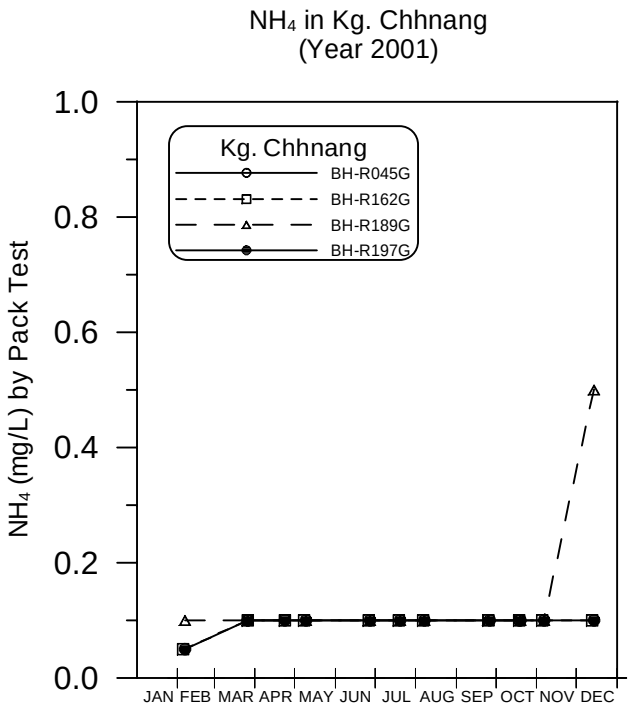


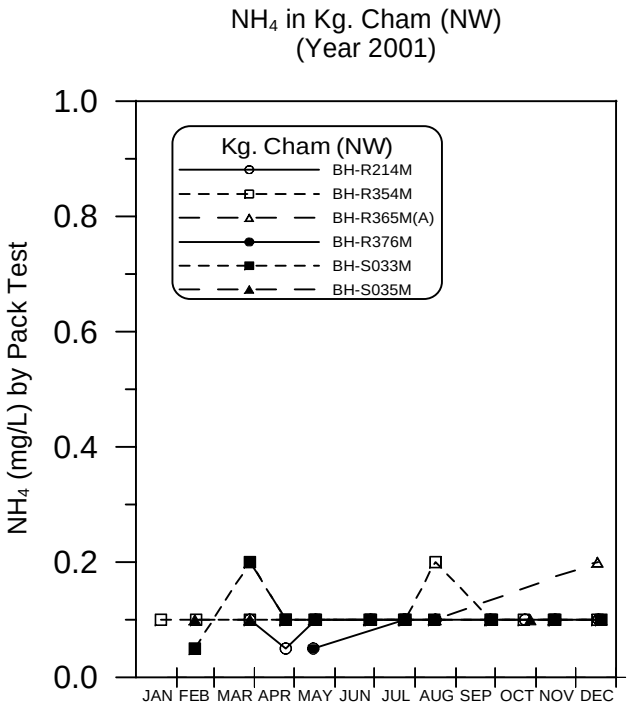
DW: Dug Well
CW: Combined Well

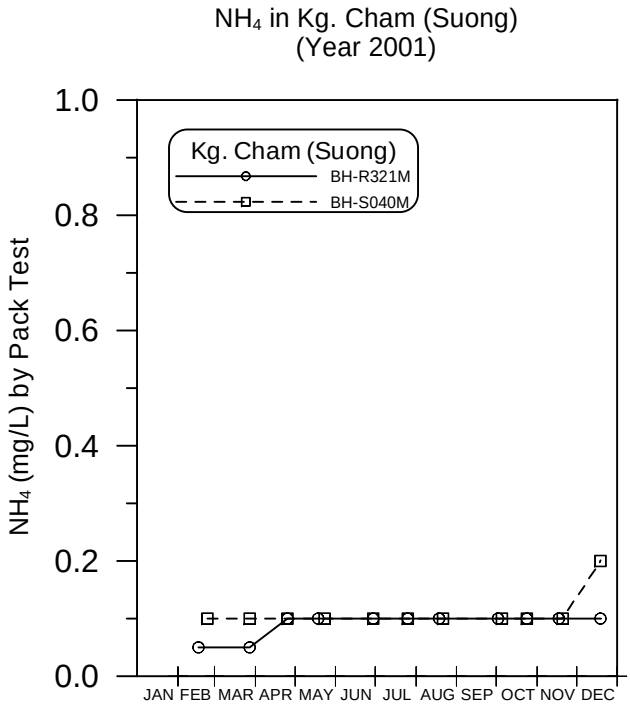
Figure 4.4.4.45 **Changes in NH_4 Concentrations at Existing Dug Wells and Combined Wells**

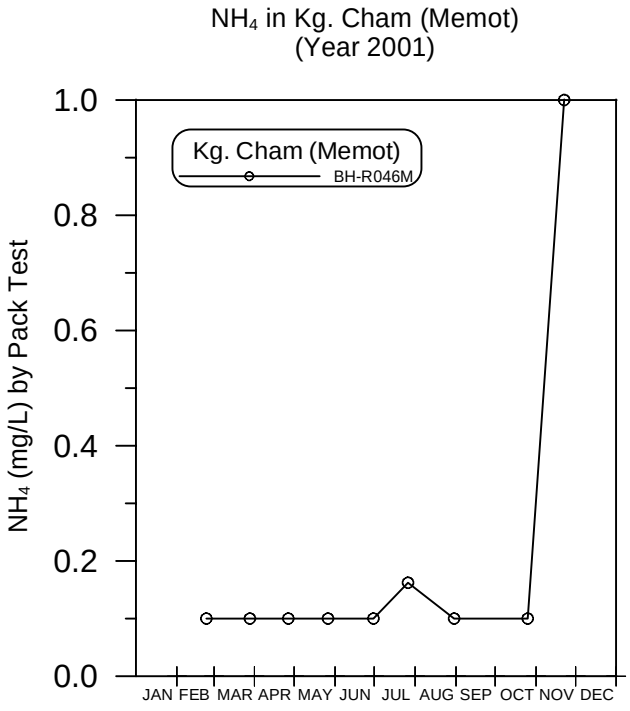
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)







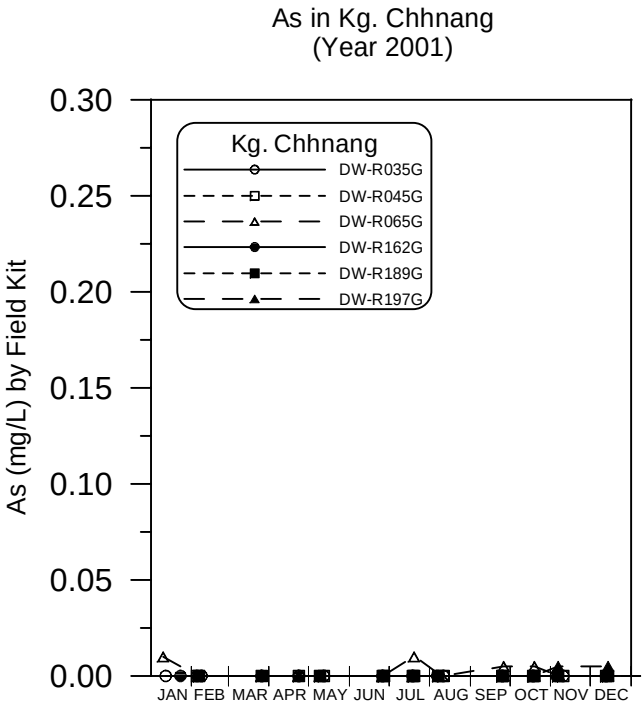


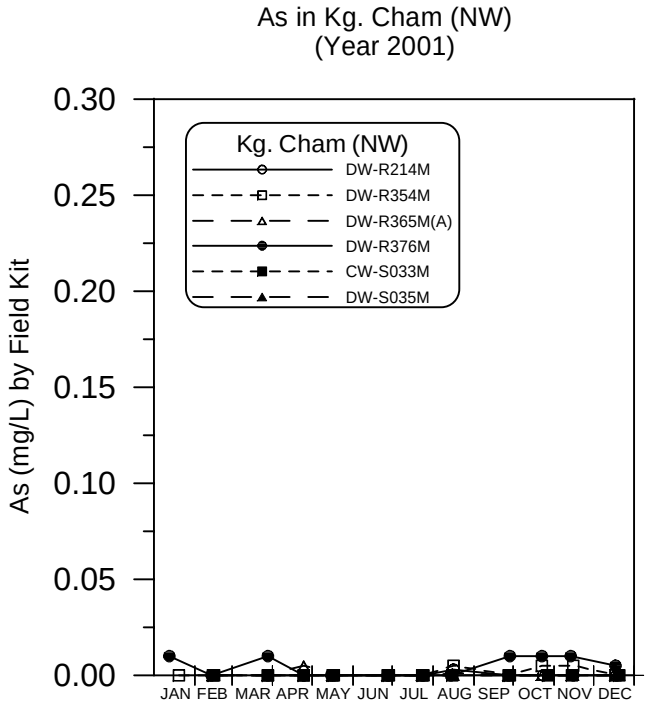
BH: Borehole Well

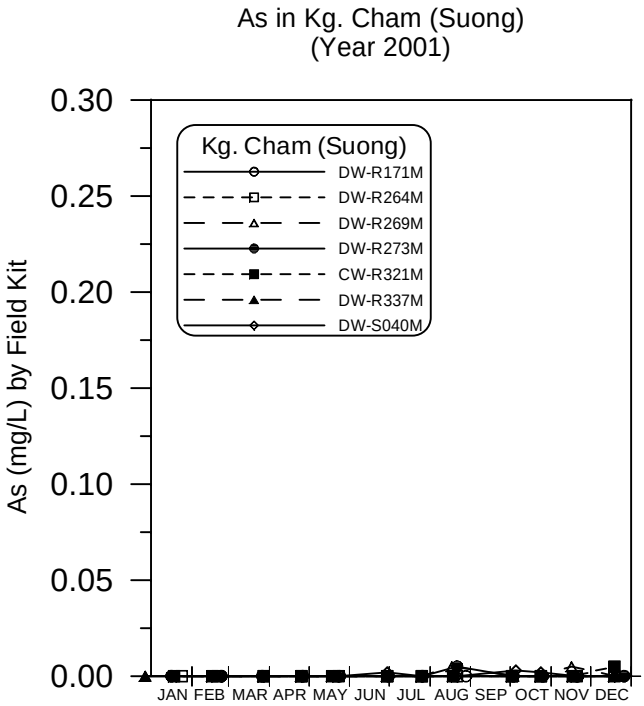
Figure 4.4.4.46 **Changes in NH_4 Concentrations at Existing Borehole Wells**

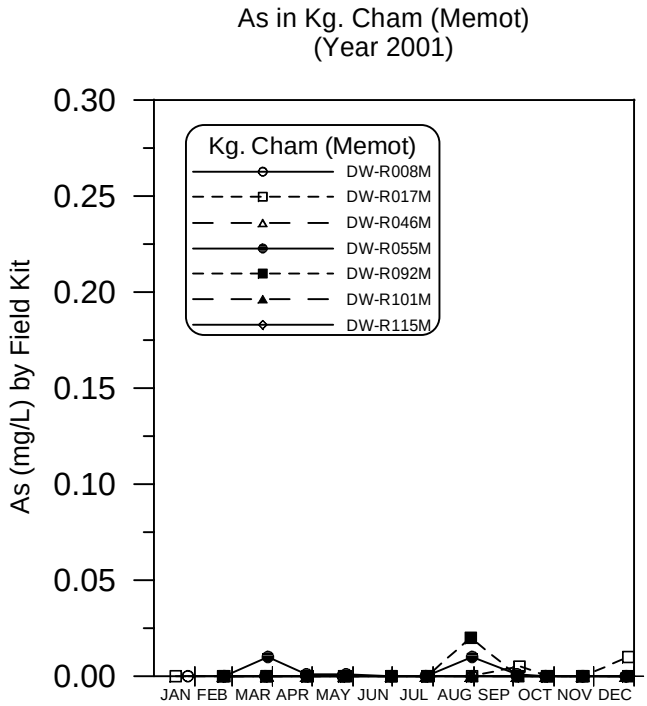
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)







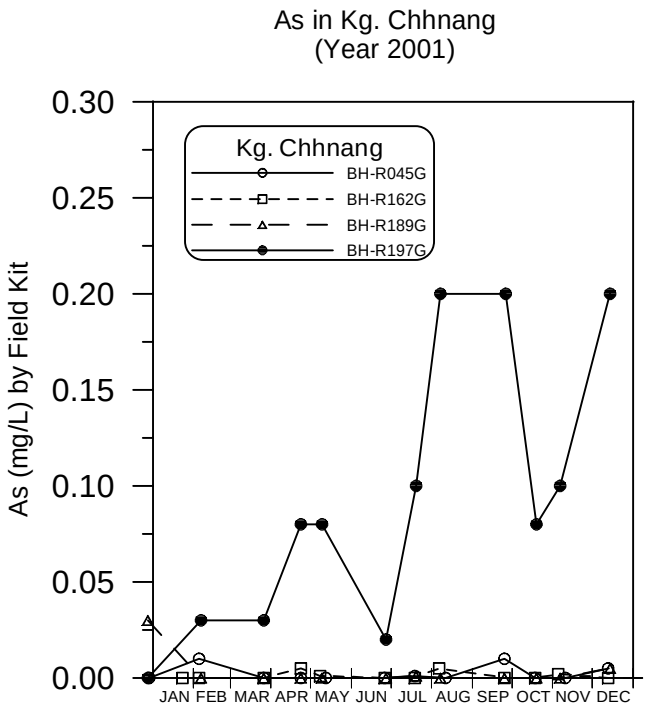


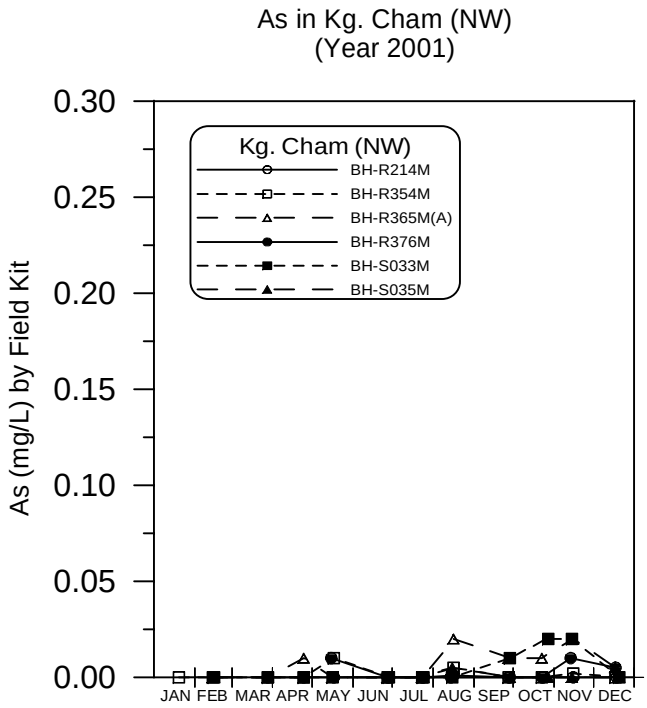
DW: Dug Well
CW: Combined Well

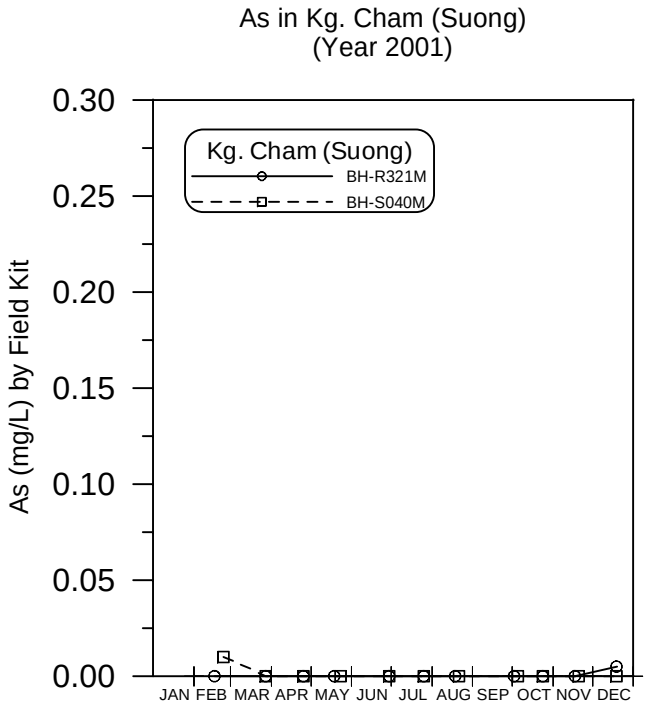
Figure 4.4.4.47 **Changes in As Concentrations at Existing Dug Wells and Combined Wells**

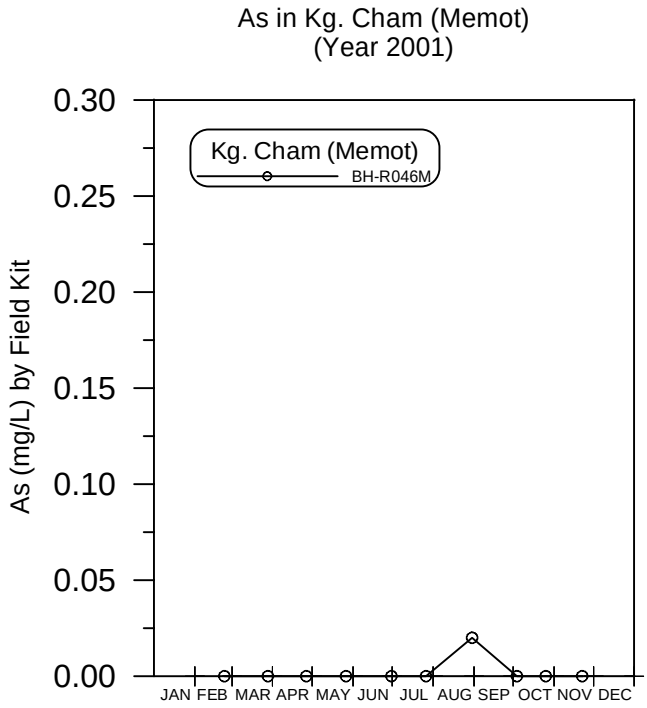
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)









BH: Borehole Well

Figure 4.4.4.48 **Changes in As Concentrations at Existing Borehole Wells**

THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

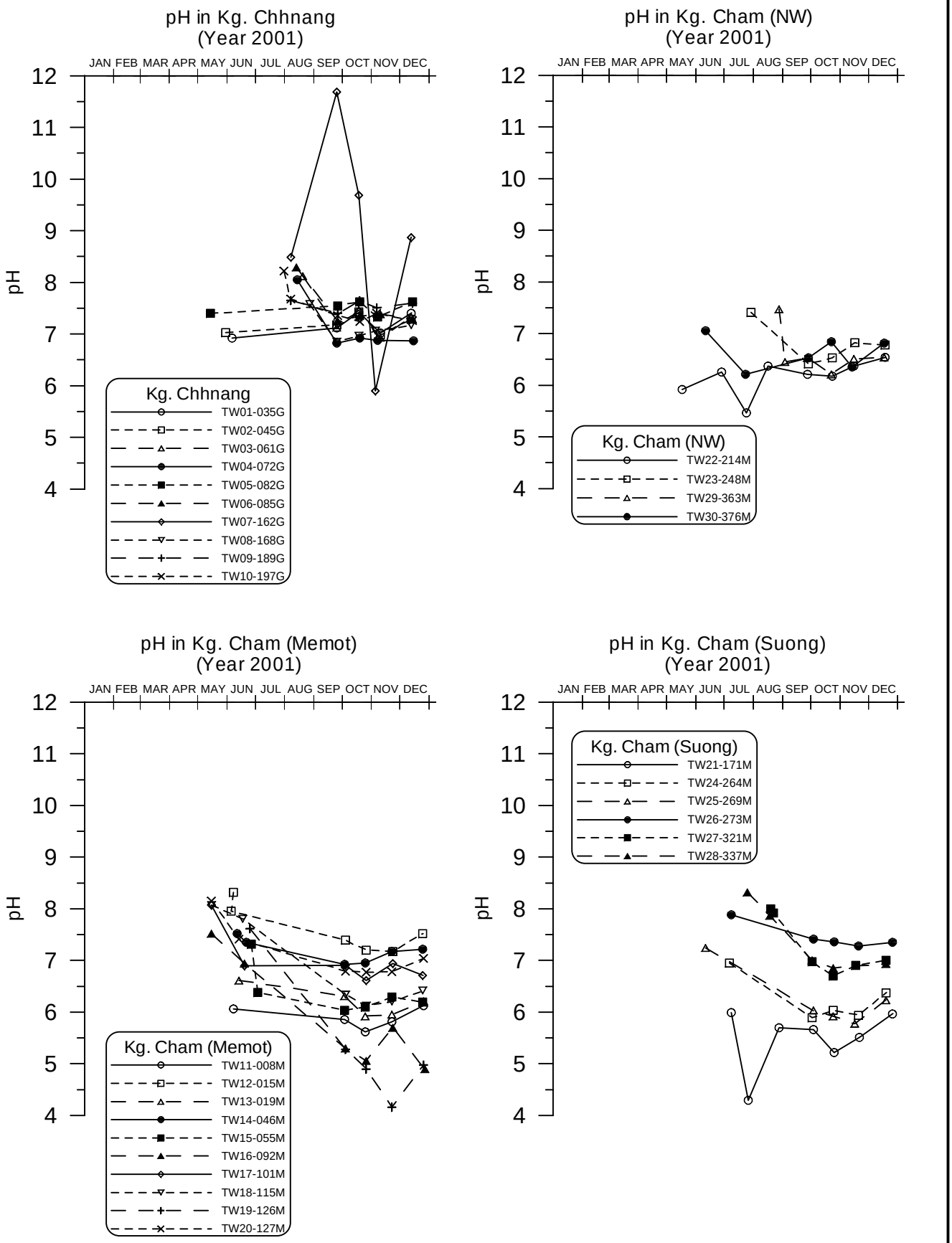


Figure 4.4.4.49	Changes in pH at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

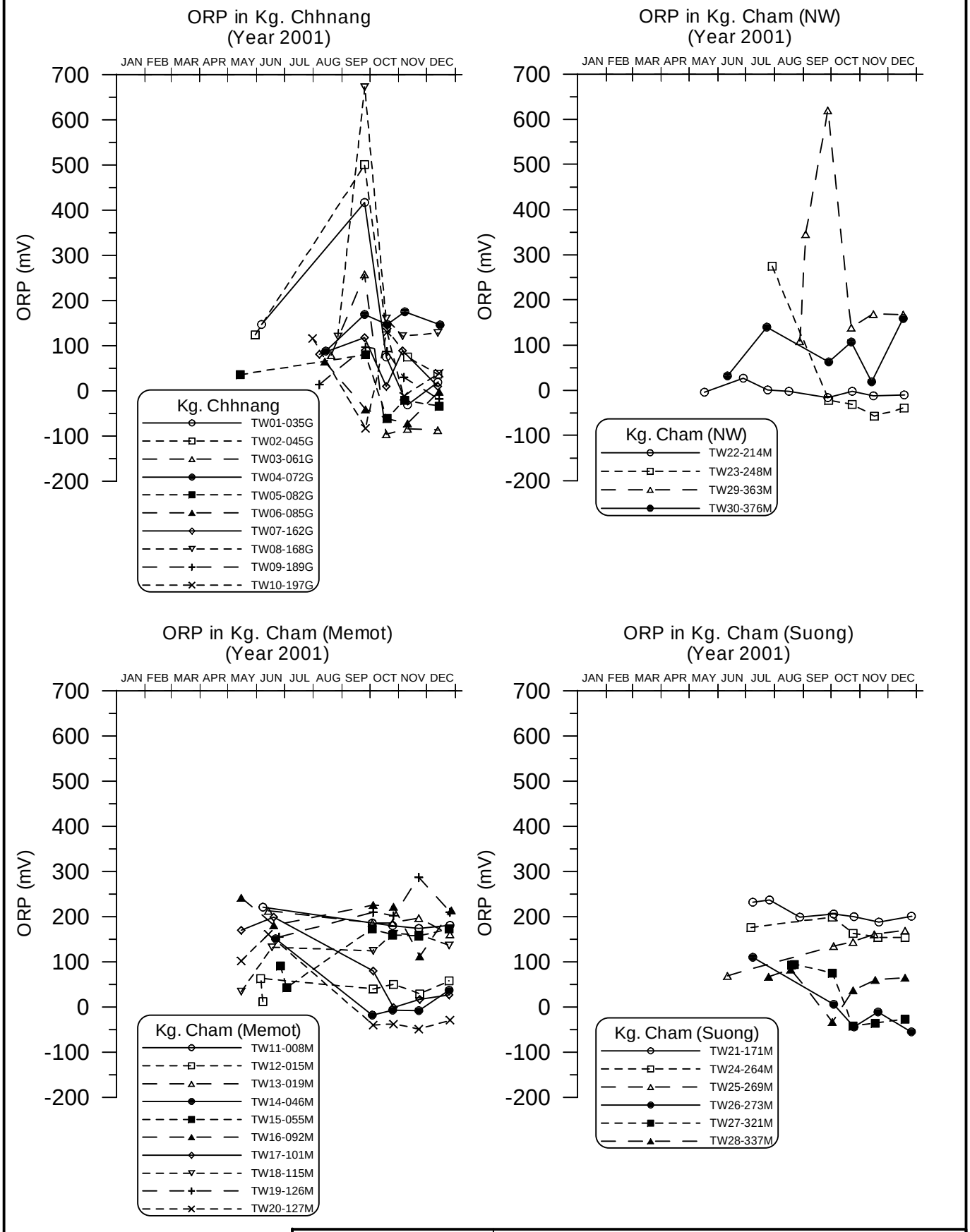
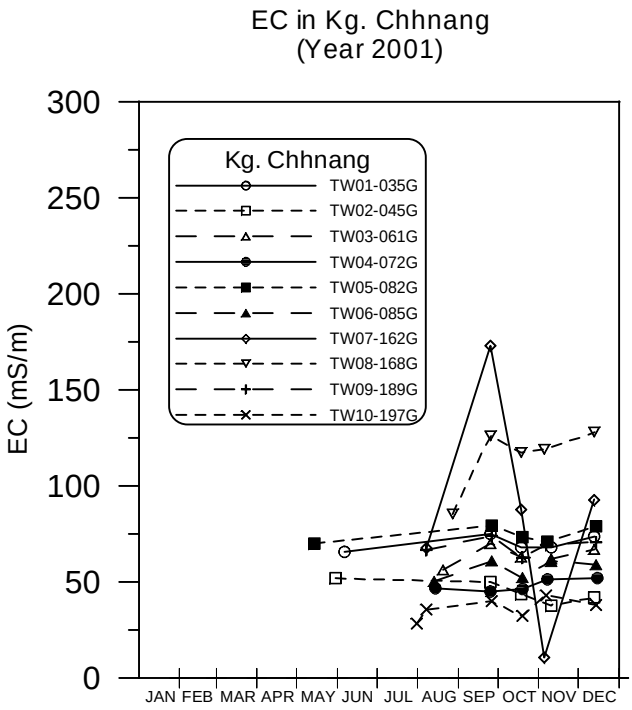
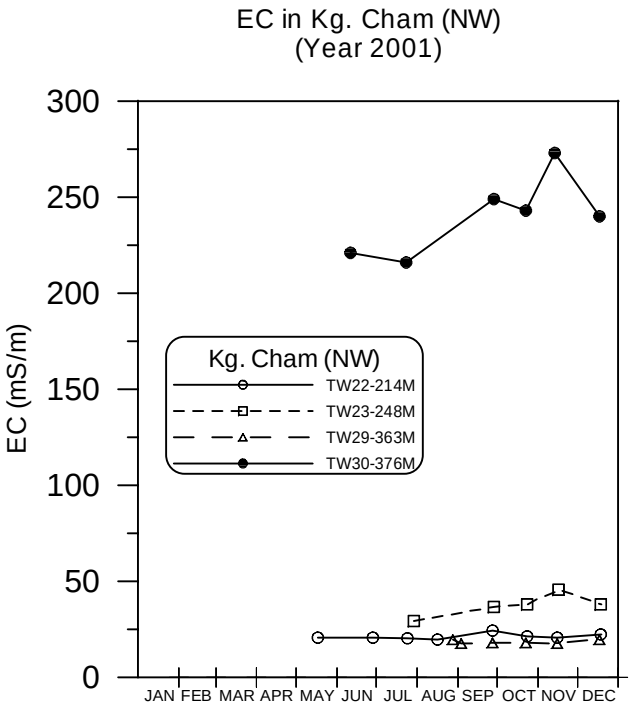
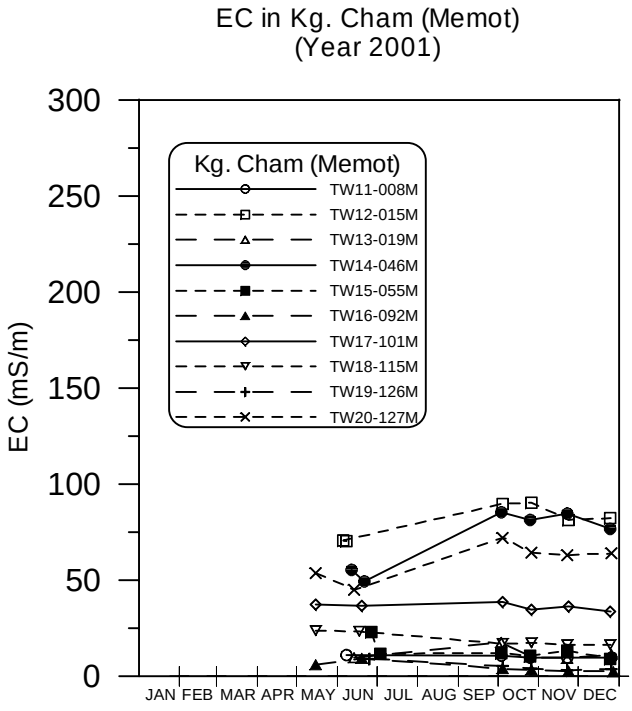


Figure 4.4.4.50	Changes in Oxidation-Reduction Potential (ORP) at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







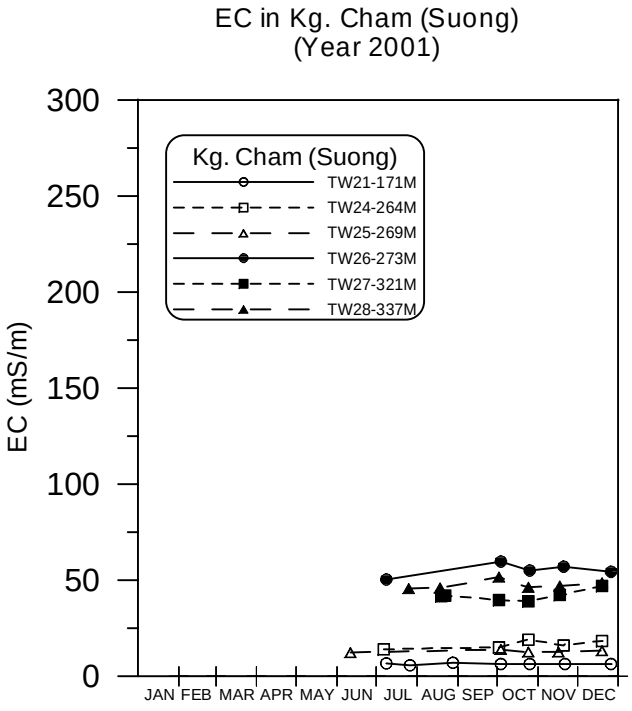
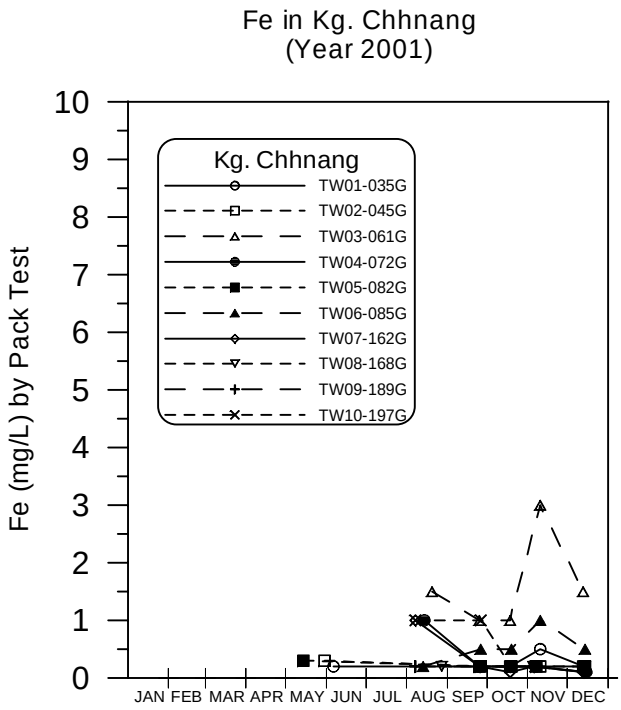
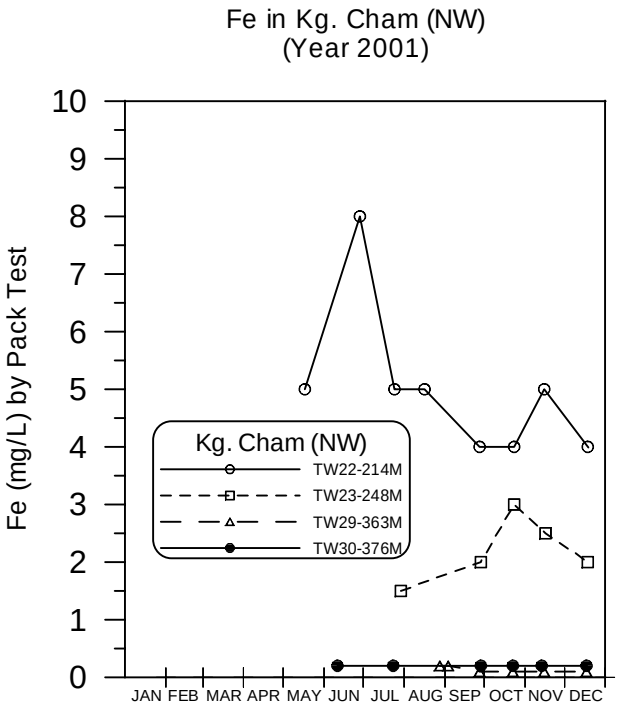
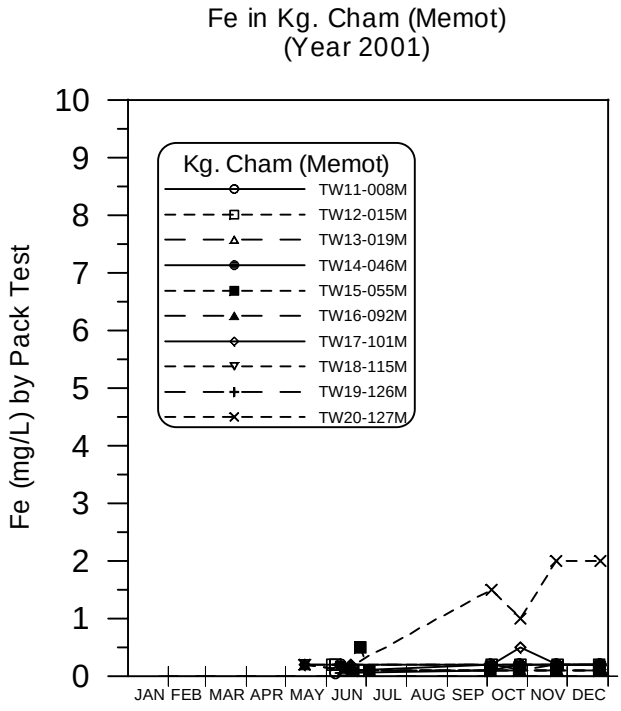


Figure 4.4.4.51	Changes in Electric Conductivity (EC) at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







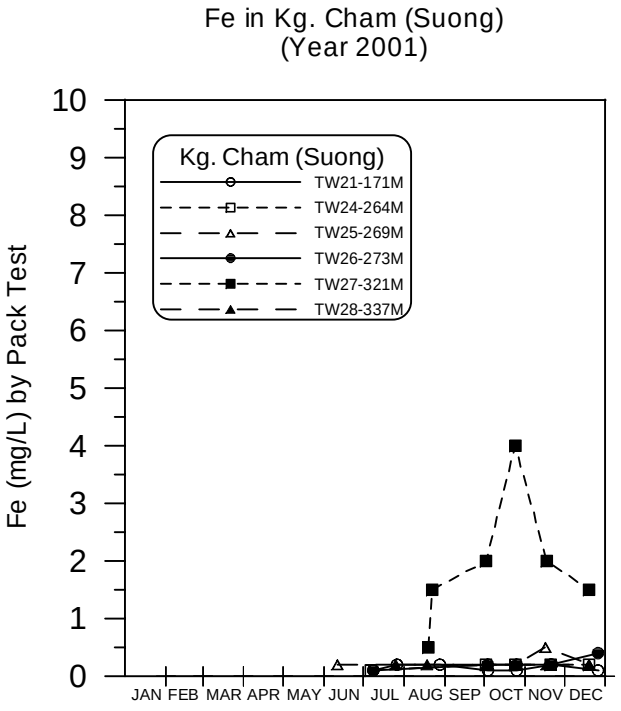
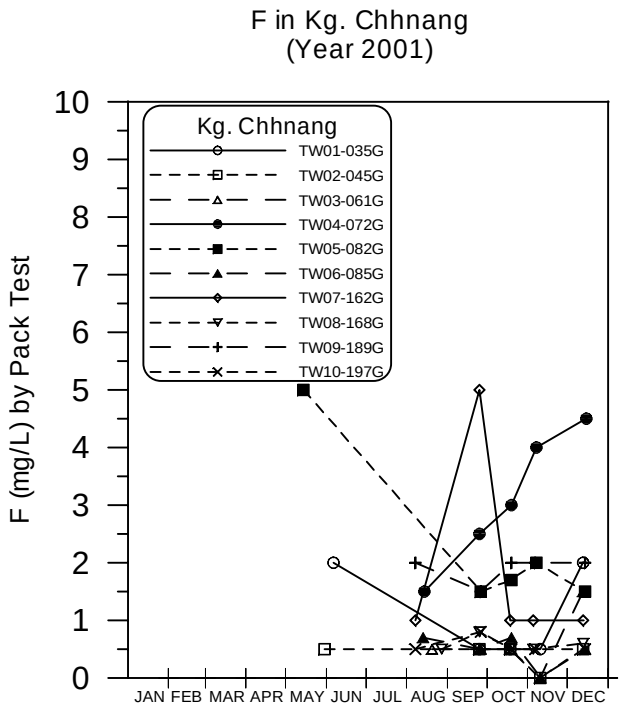
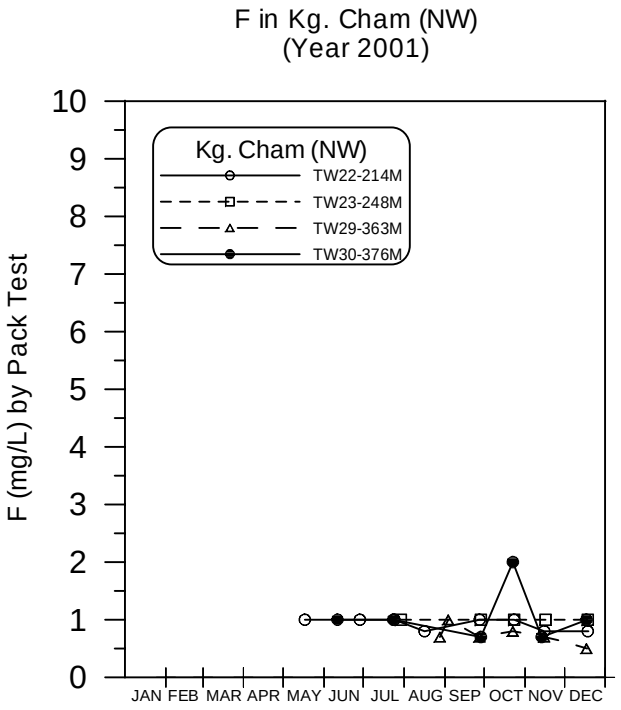
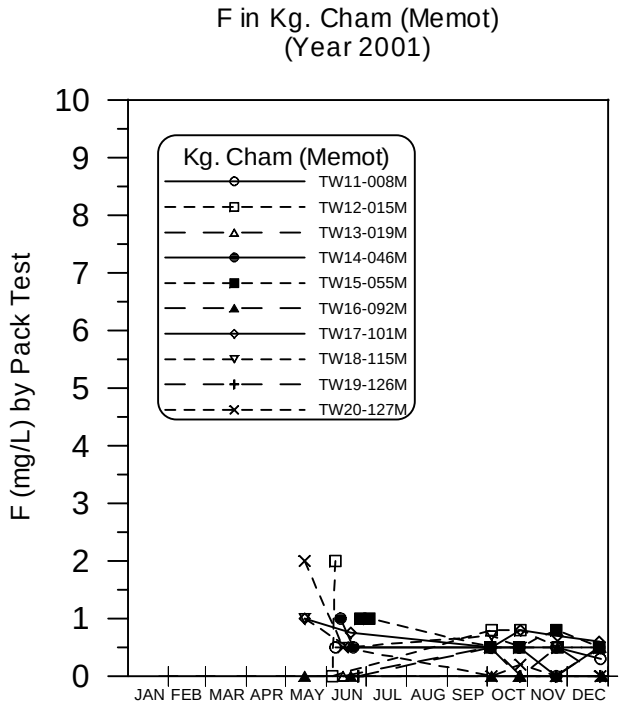


Figure 4.4.4.52	Changes in Fe Concentrations by Pack Test at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







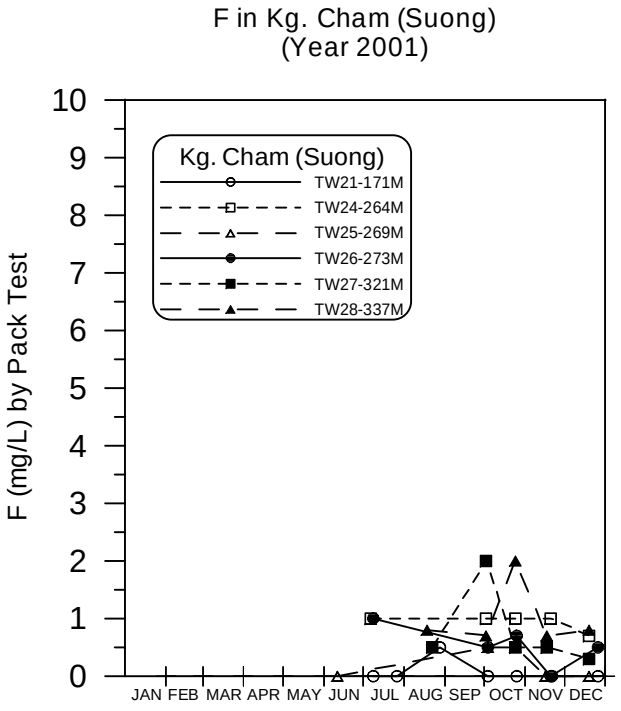
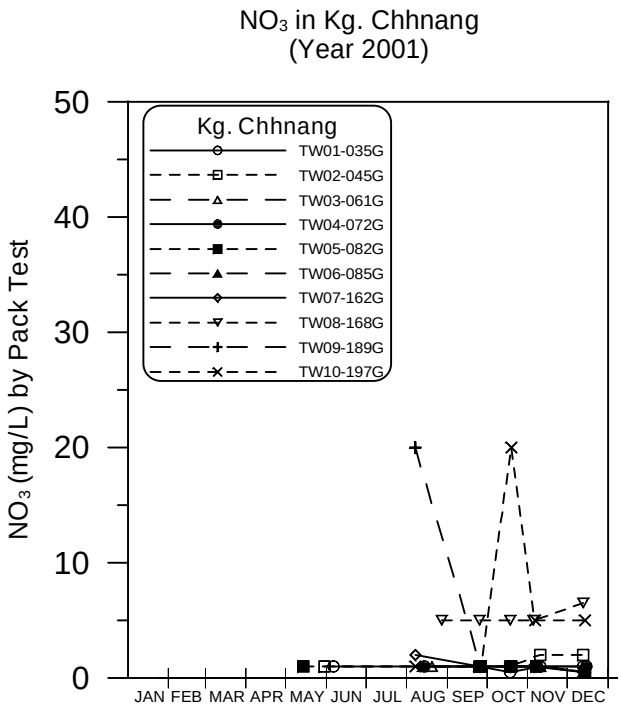
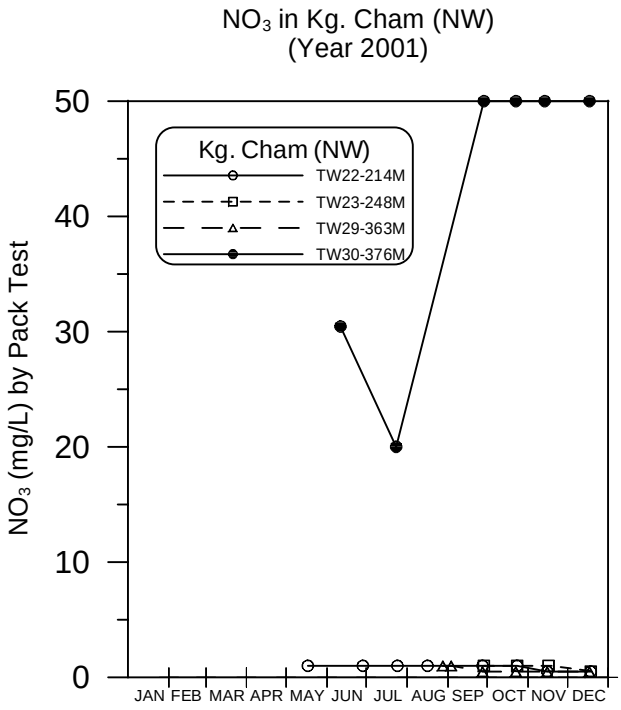
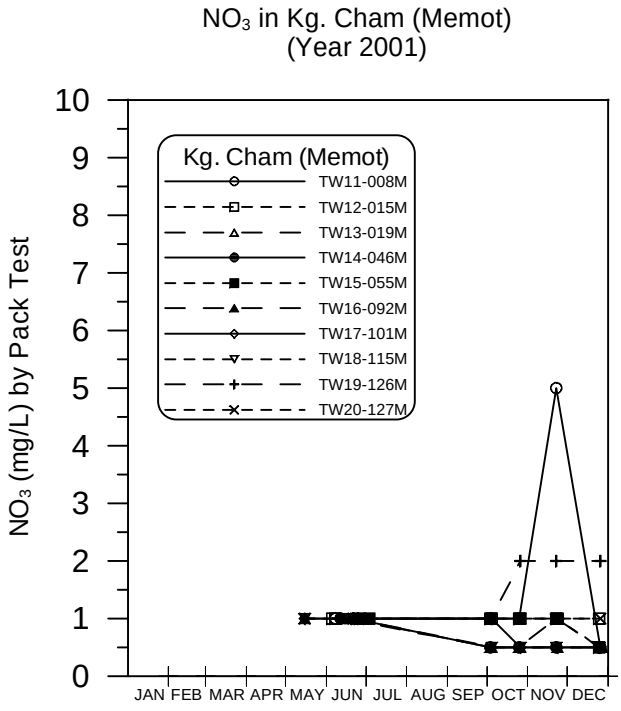


Figure 4.4.4.53	Changes in F Concentrations by Pack Test at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







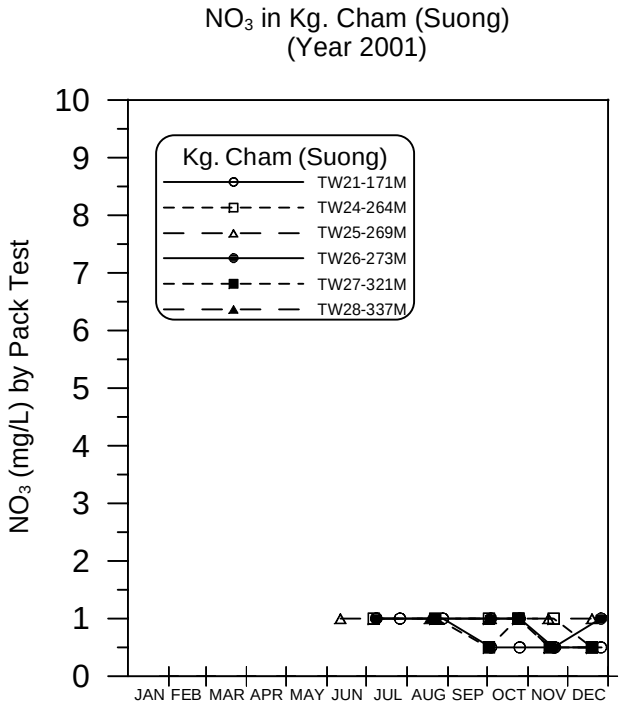
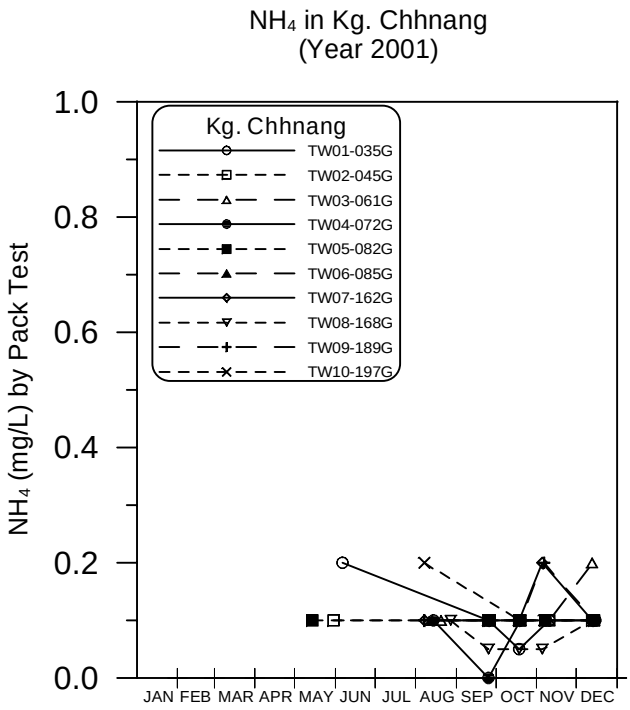
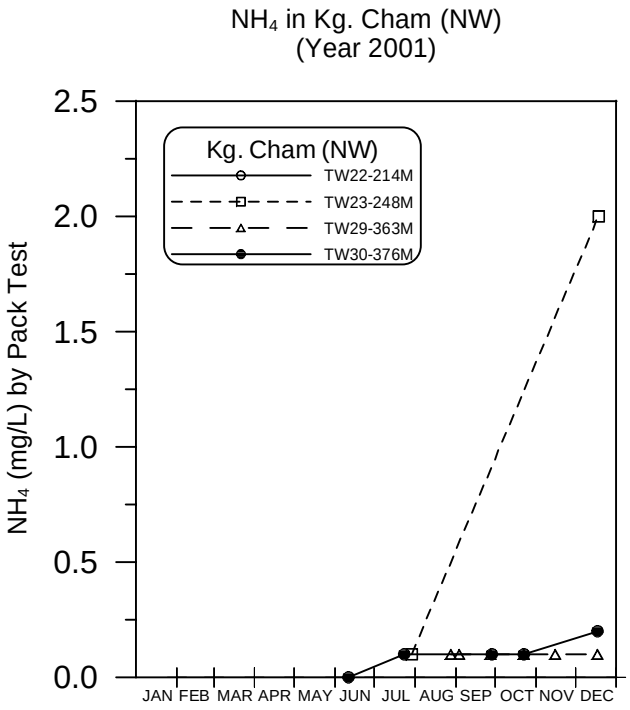
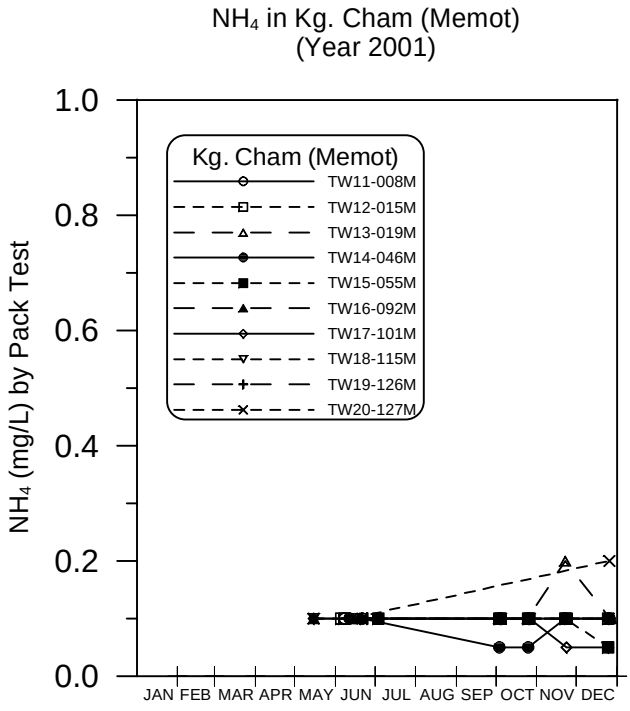


Figure 4.4.4.54	**Changes in NO_3 Concentrations by Pack Test at JICA Test Wells**
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







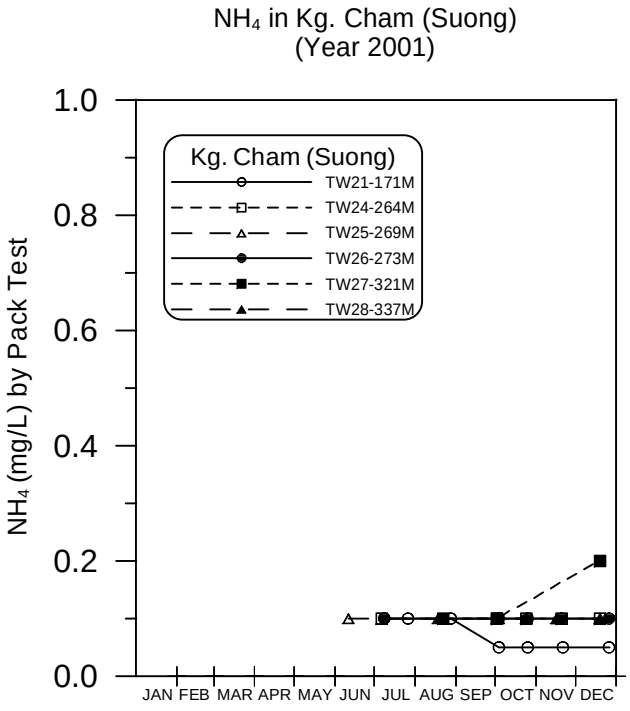
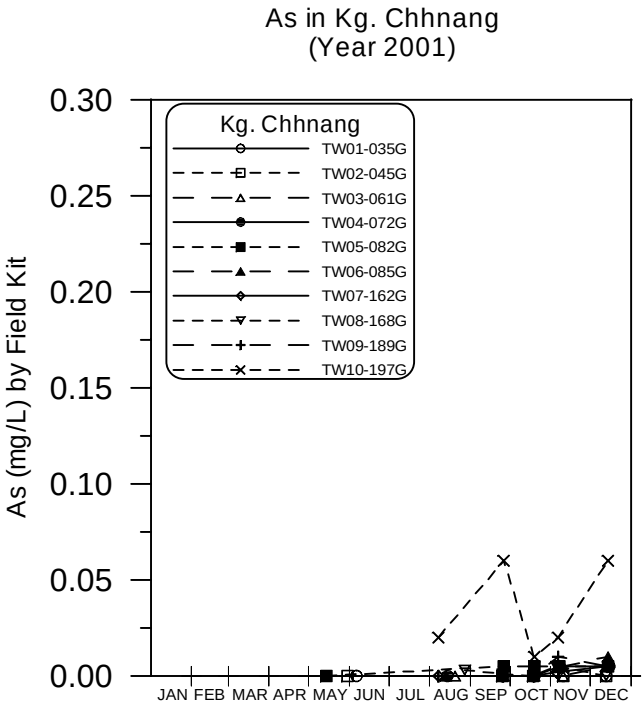
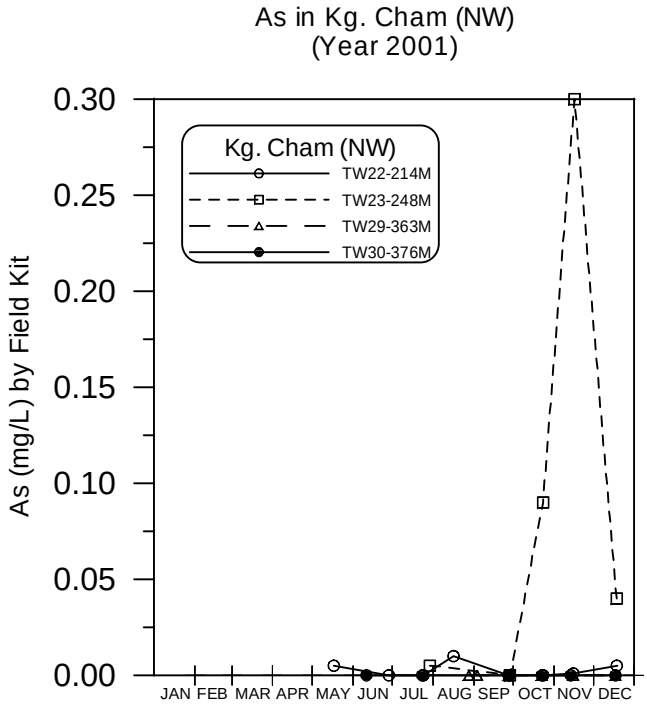
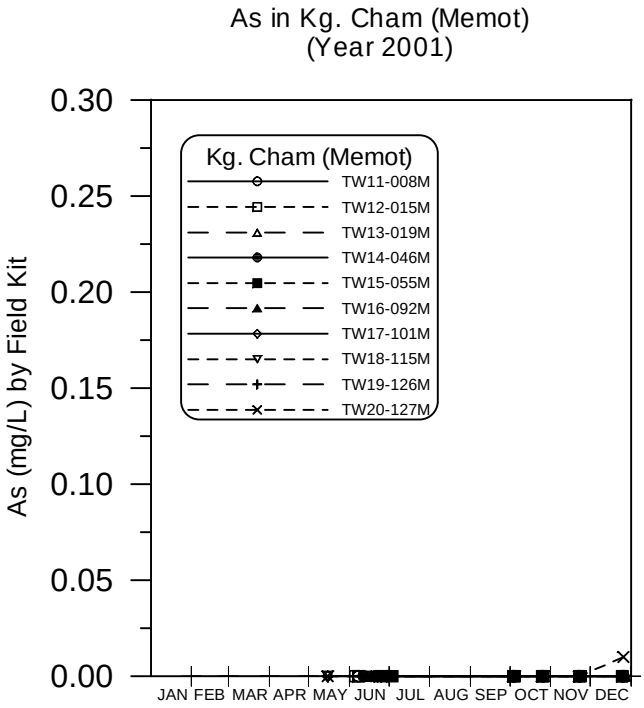


Figure 4.4.4.55	**Changes in NH_4 Concentrations by Pack Test at JICA Test Wells**
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	







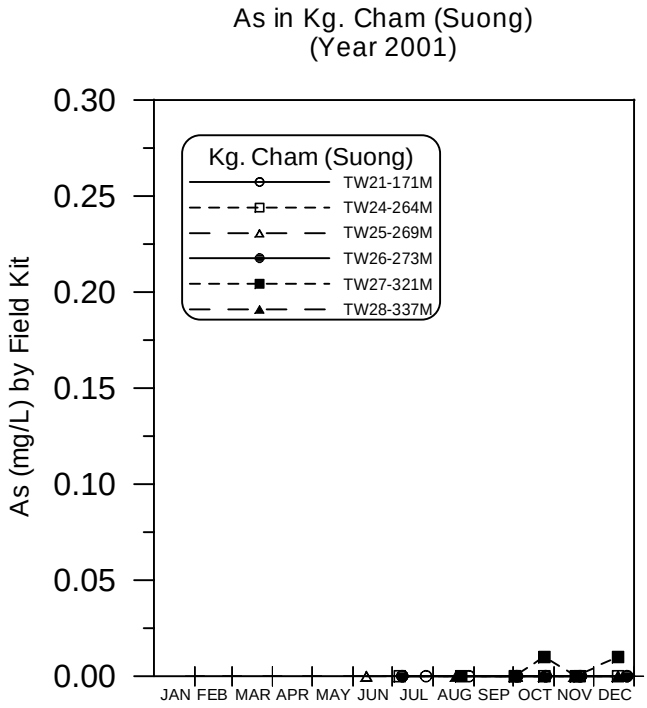


Figure 4.4.4.56	Changes in As Concentrations by Field Kit at JICA Test Wells
THE STUDY ON GROUNDWATER DEVELOPMENT IN CENTRAL CAMBODIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	