$$\begin{split} \nabla_{\mu}Q(\theta\mid\theta^{(\tau-1)}) &= \sum_{t=1}^{G} \nabla_{\mu}Q_{t}(\theta\mid\theta^{(\tau-1)}) \\ &= \sum_{t=1}^{G} \nabla_{\mu} \Big(-\frac{1}{2} (\widetilde{x}_{t}^{(\tau)} - \mu)^{H} \mathbf{\Lambda}^{-1} (\widetilde{x}_{t}^{(\tau)} - \mu) \Big) \\ &= -\frac{1}{2} \sum_{t=1}^{G} \nabla_{\mu} (\widetilde{x}_{t}^{(\tau)} - \mu)^{H} \mathbf{\Lambda}^{-1} (\widetilde{x}_{t}^{(\tau)} - \mu) \\ &= -\frac{1}{2} \sum_{t=1}^{G} 2\mathbf{\Lambda}^{-1} (\widetilde{x}_{t}^{(\tau)} - \mu) \nabla_{\mu} (\widetilde{x}_{t}^{(\tau)} - \mu) \\ &= -\frac{1}{2} \sum_{t=1}^{G} 2\mathbf{\Lambda}^{-1} (\widetilde{x}_{t}^{(\tau)} - \mu) (O - I_{p}) \\ &= \mathbf{\Lambda}^{-1} \sum_{t=1}^{G} (\widetilde{x}_{t}^{(\tau)} - \mu) \end{split}$$