$$\frac{d[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}]}{dt} = k_1[\operatorname{EnvZ} - \operatorname{P}][\operatorname{OmpR}]$$

$$-(k_{-1} + k_t)[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}]$$

$$\frac{d[(\operatorname{EnvZ})\operatorname{OmpR} - \operatorname{P}]}{dt} = k_2[\operatorname{EnvZ}][\operatorname{OmpR} - \operatorname{P}]$$

$$-(k_{-2} + k_p)[(\operatorname{EnvZ})\operatorname{OmpR} - \operatorname{P}]$$

$$\frac{d[\operatorname{EnvZ} - \operatorname{P}]}{dt} = k_{-1}[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}] - k_{-k}[\operatorname{EnvZ} - \operatorname{P}]$$

$$+k_k[\operatorname{EnvZ}] - k_1[\operatorname{EnvZ} - \operatorname{P}][\operatorname{OmpR}]$$

$$\frac{d[\operatorname{EnvZ}]}{dt} = k_{-k}[\operatorname{EnvZ} - \operatorname{P}] + (k_p + k_{-2})[(\operatorname{EnvZ})\operatorname{OmpR} - \operatorname{P}]$$

$$-k_k[\operatorname{EnvZ}] + (k_p + k_{-2})[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}]$$

$$-k_2[\operatorname{EnvZ}][\operatorname{OmpR} - \operatorname{P}]$$

$$\frac{d[\operatorname{OmpR}]}{dt} = k_{-1}[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}] - k_1[\operatorname{EnvZ} - \operatorname{P}][\operatorname{OmpR}]$$

$$+ k_p[(\operatorname{EnvZ})\operatorname{OmpR} - \operatorname{P}]$$

$$\frac{d[\operatorname{OmpR} - \operatorname{P}]}{dt} = k_t[(\operatorname{EnvZ} - \operatorname{P})\operatorname{OmpR}] - k_2[\operatorname{EnvZ}][\operatorname{OmpR} - \operatorname{P}]$$

$$+ k_{-2}[(\operatorname{EnvZ})\operatorname{OmpR} - \operatorname{P}]$$