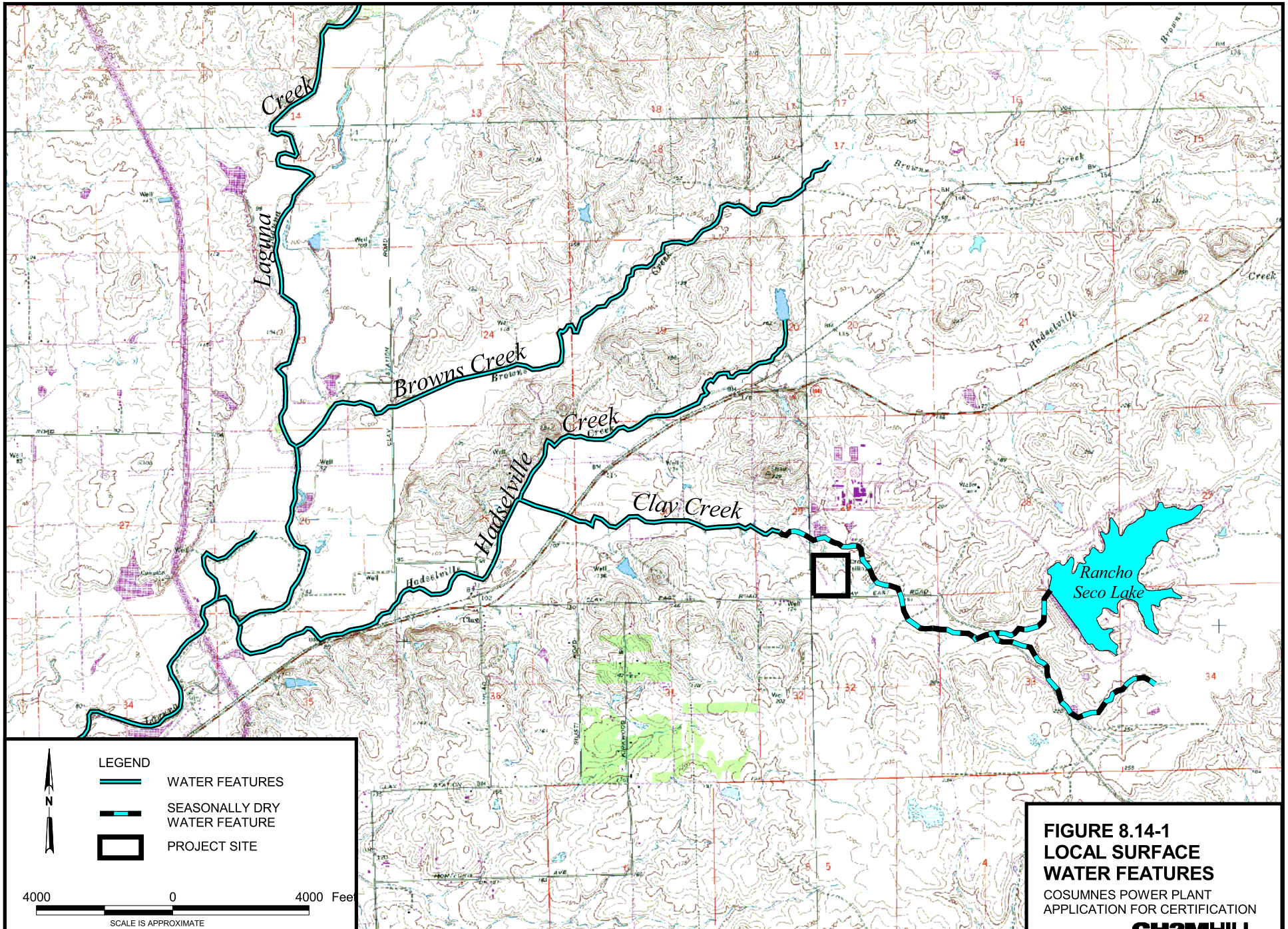
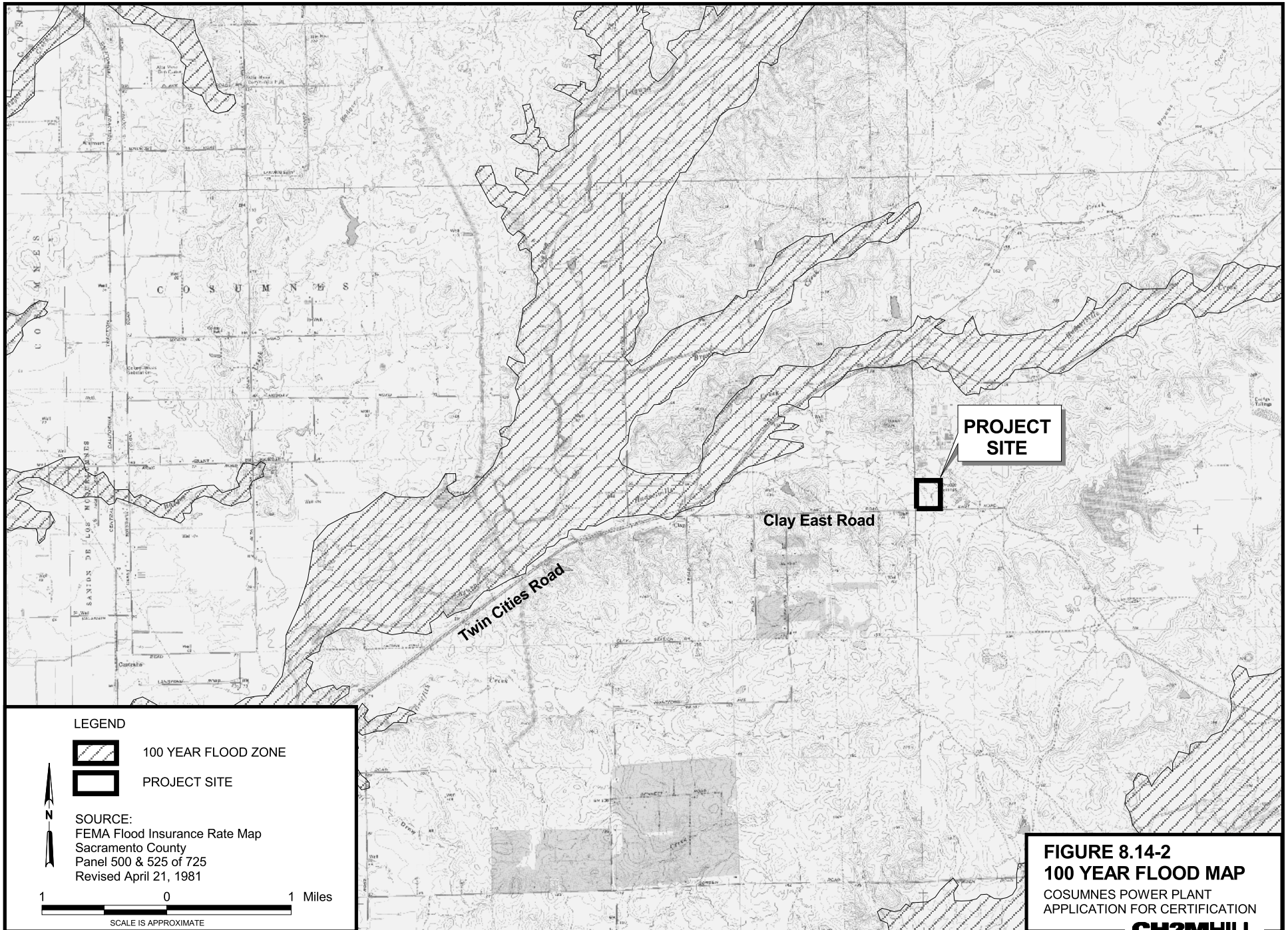
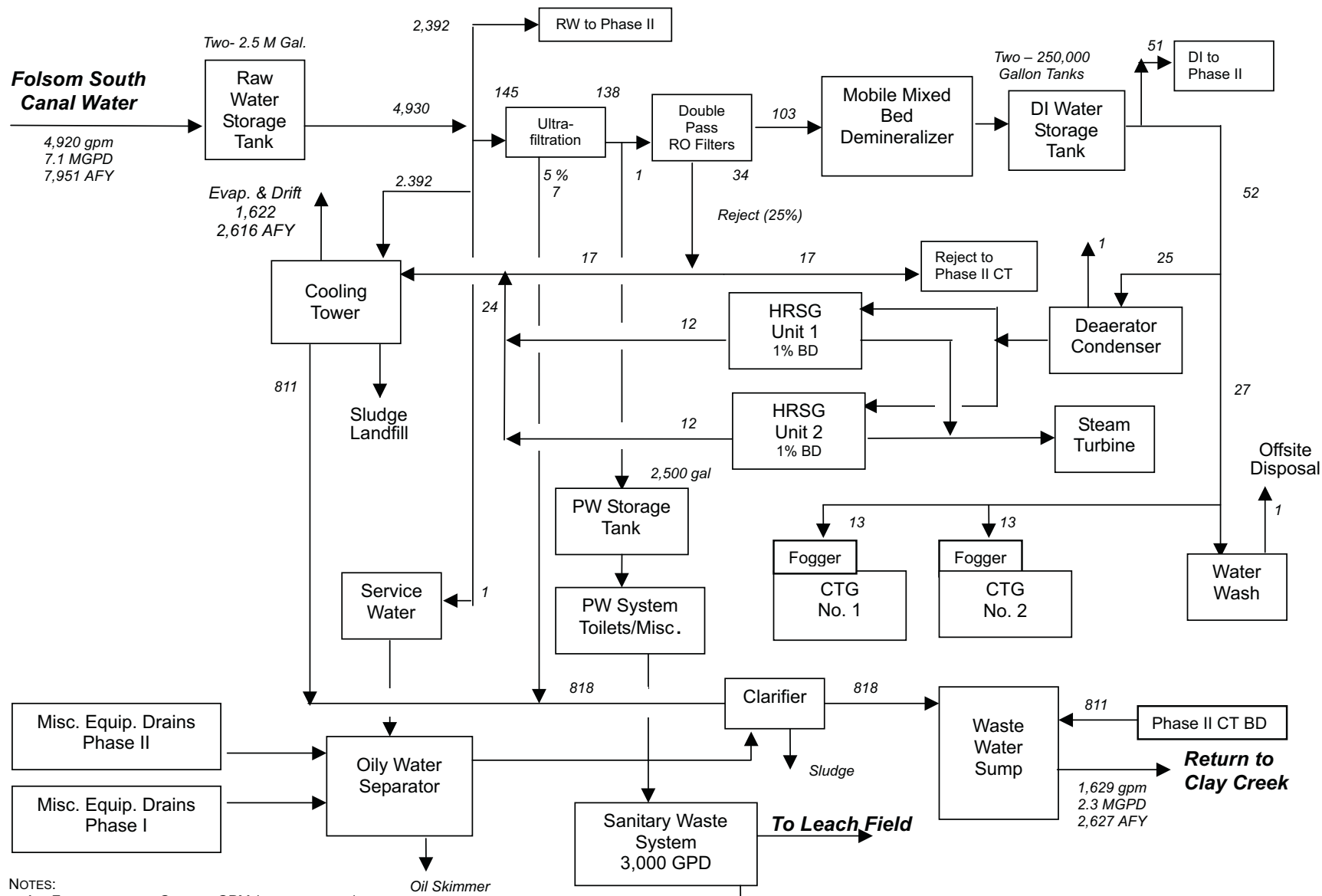


DOCKETED

Docket Number:	01-AFC-19C
Project Title:	SMUD Cosumnes Power Plant - Compliance
TN #:	244287-35
Document Title:	Water Resources - Maps & Figures
Description:	N/A
Filer:	Patty Paul
Organization:	Ch2mhill/Carrier
Submitter Role:	Applicant Consultant
Submission Date:	8/1/2022 3:19:28 PM
Docketed Date:	8/1/2022

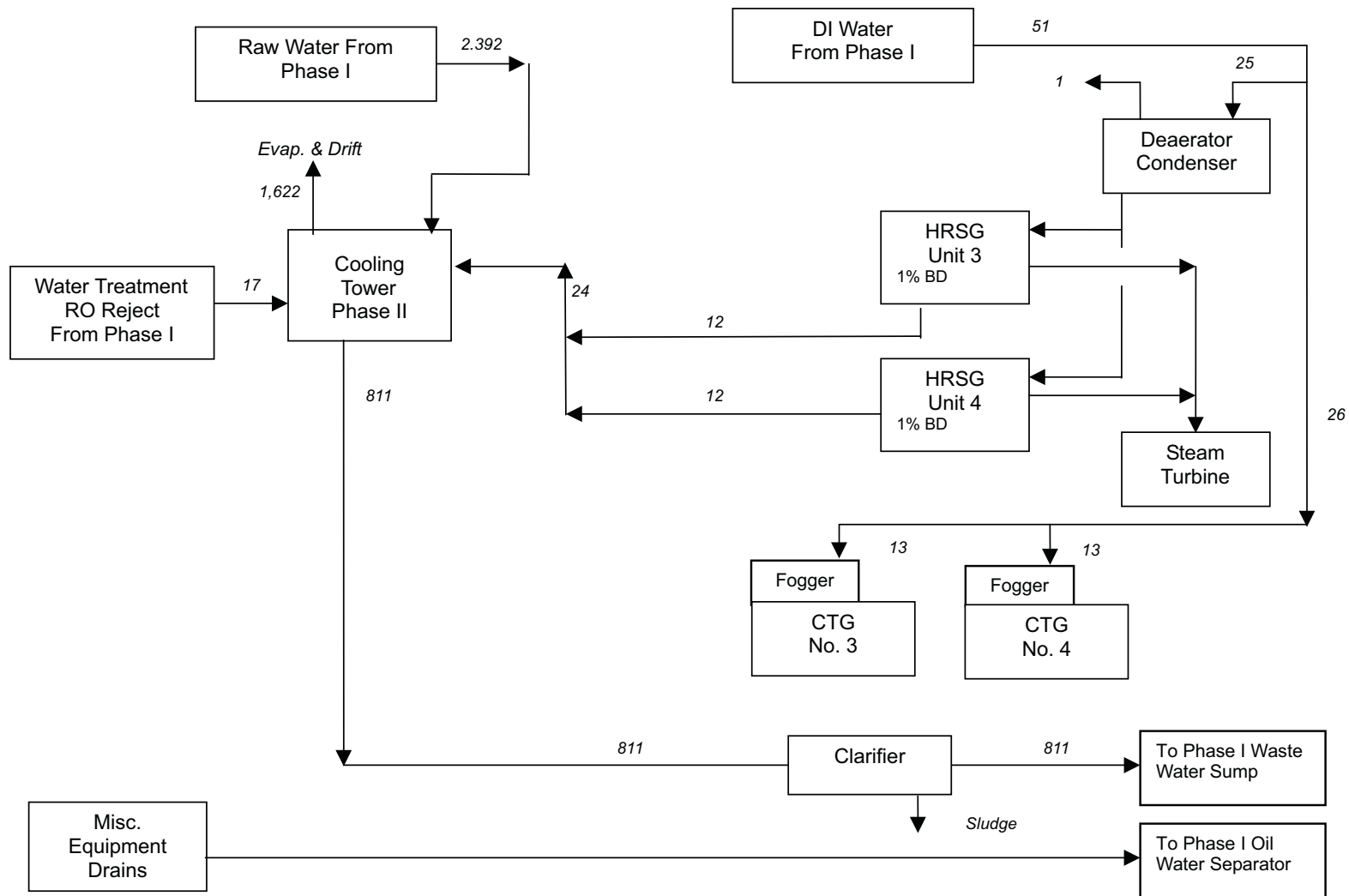






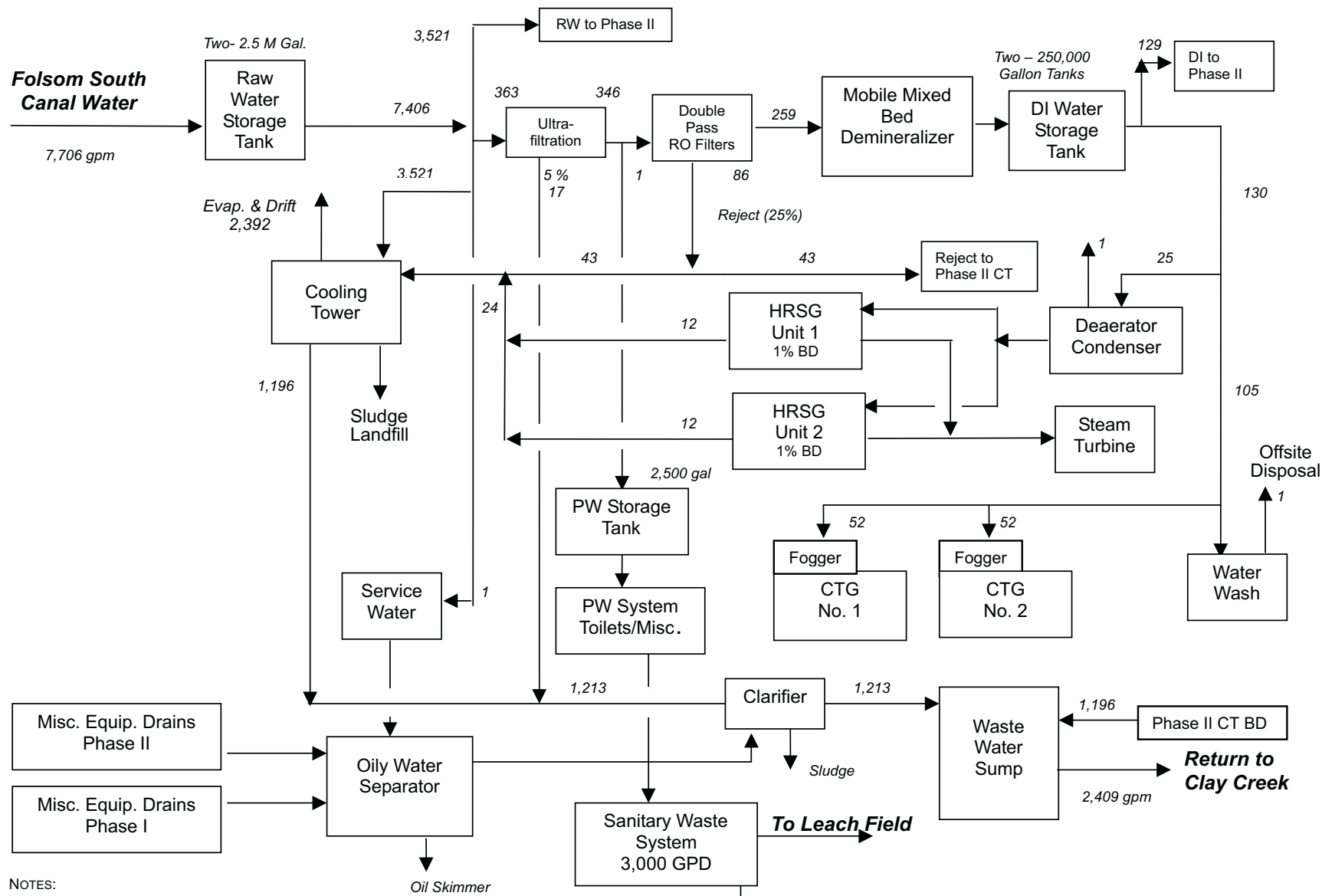
NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM (UNLESS NOTED).
 FLOWS ARE BASED ON FULL LOAD OPERATION, ANNUAL AVERAGE TEMPERATURE OF 61 DEGREES F, 53 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 3.0 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14-3aR
PHASE I - ANNUAL AVERAGE
WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION
CH2MHILL



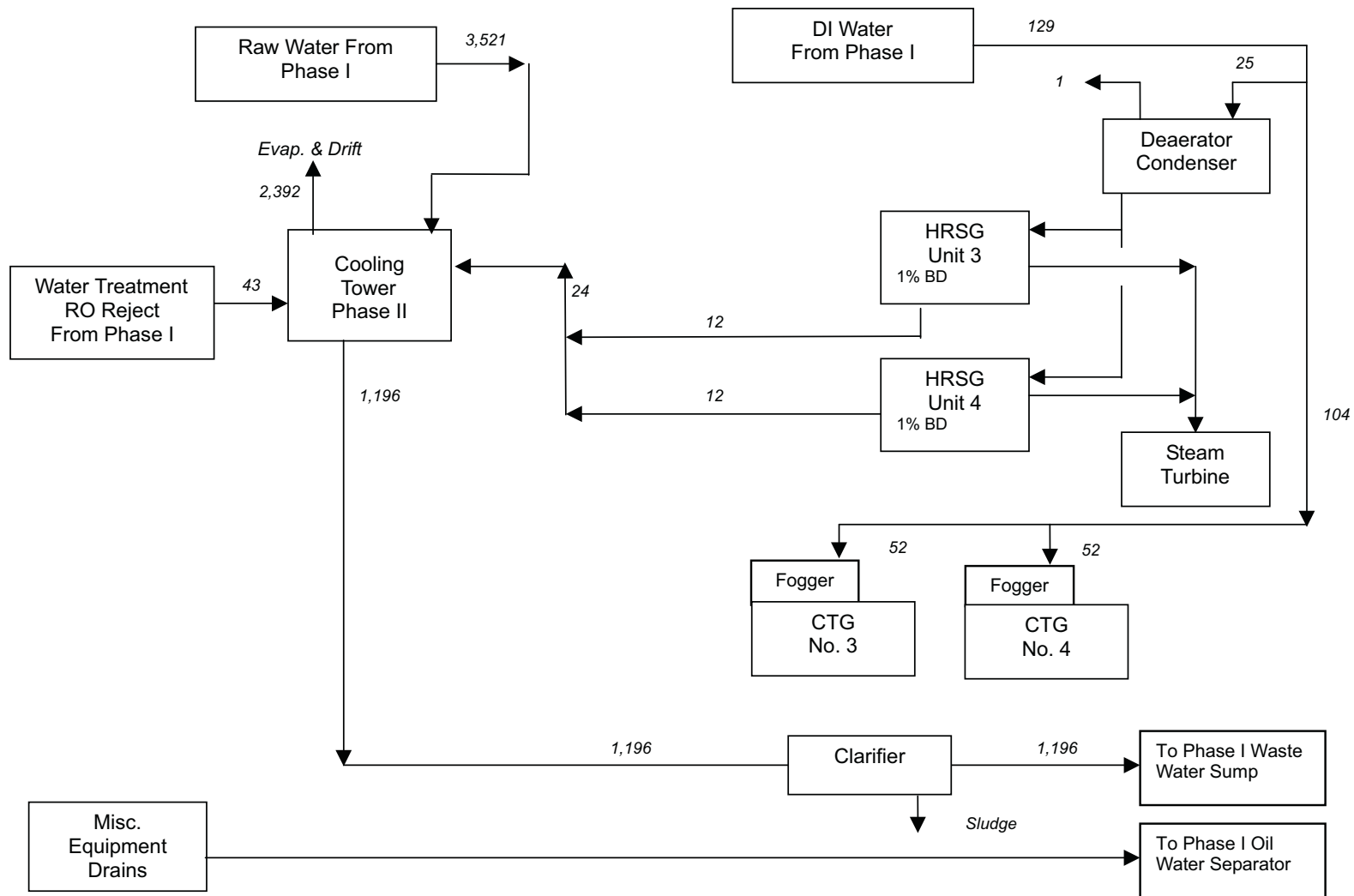
NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION, ANNUAL AVERAGE TEMPERATURE OF 61 DEGREES F, 53 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 3.0 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14-3b
PHASE II – ANNUAL AVERAGE
WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



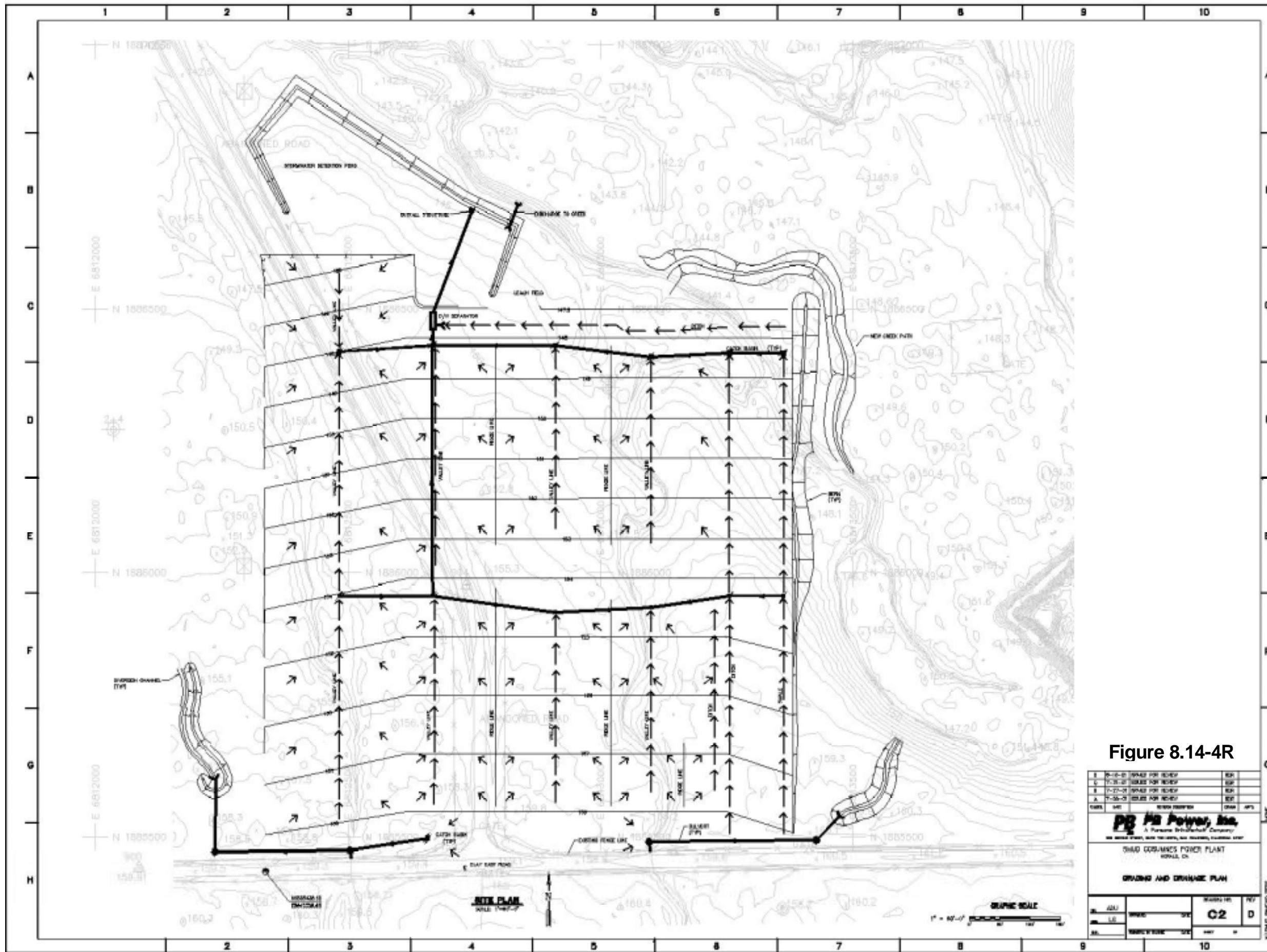
NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION WITH AN AMBIENT TEMPERATURE OF 104 DEGREES F, 70 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 3.0 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14-3cR
PHASE I – 104 DEGREES FAHRENHEIT
PEAK WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION WITH AN AMBIENT TEMPERATURE OF 104 DEGREES F, 70 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 3.0 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14-3d
PHASE II – 104 DEGREES FAHRENHEIT
PEAK WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION

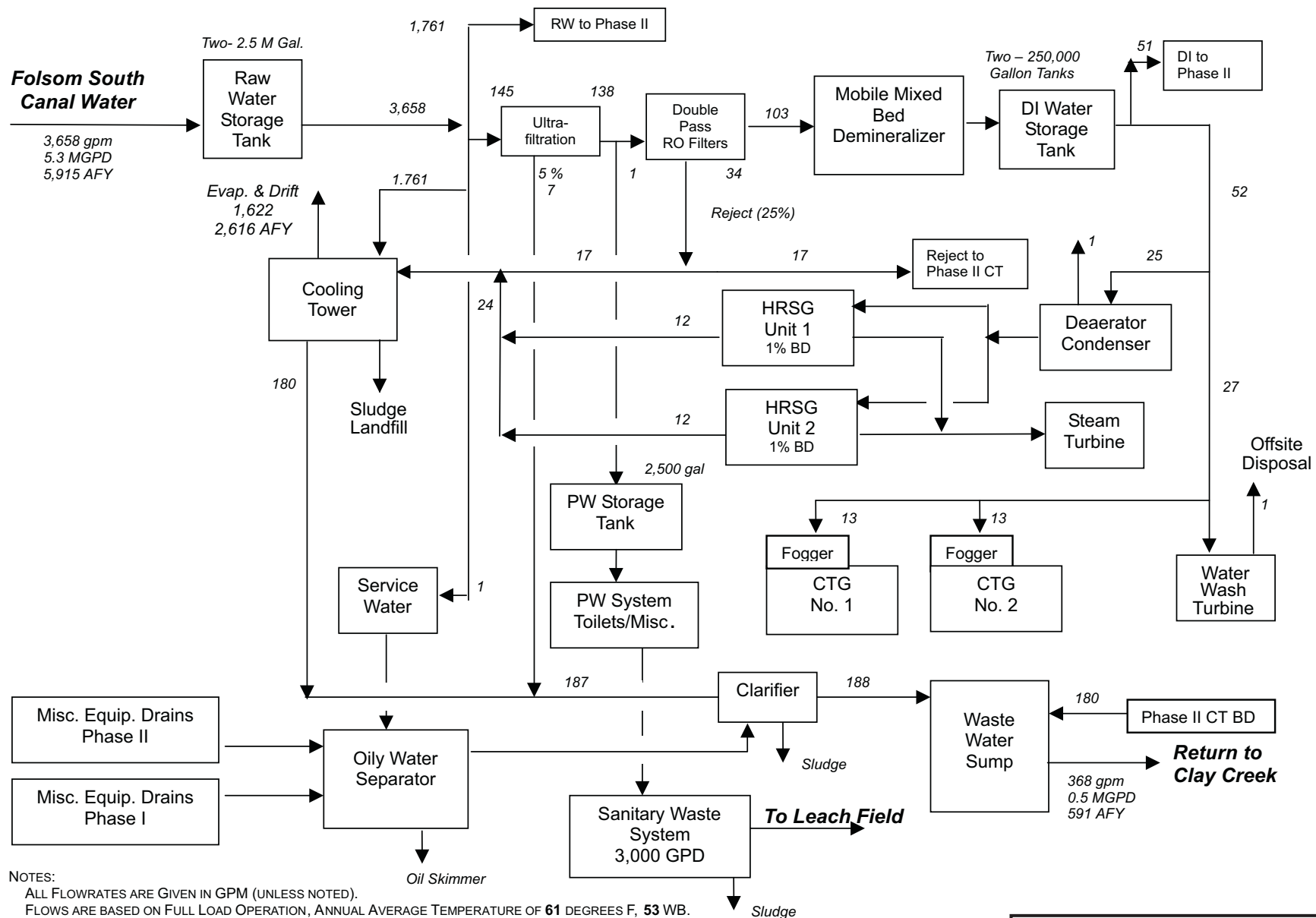




**FIGURE 8.14-5
SURFACE WATERS
POTENTIALLY
AFFECTED BY THE
PROJECT**

COSUMNES POWER PLANT
APPLICATION FOR
CERTIFICATION

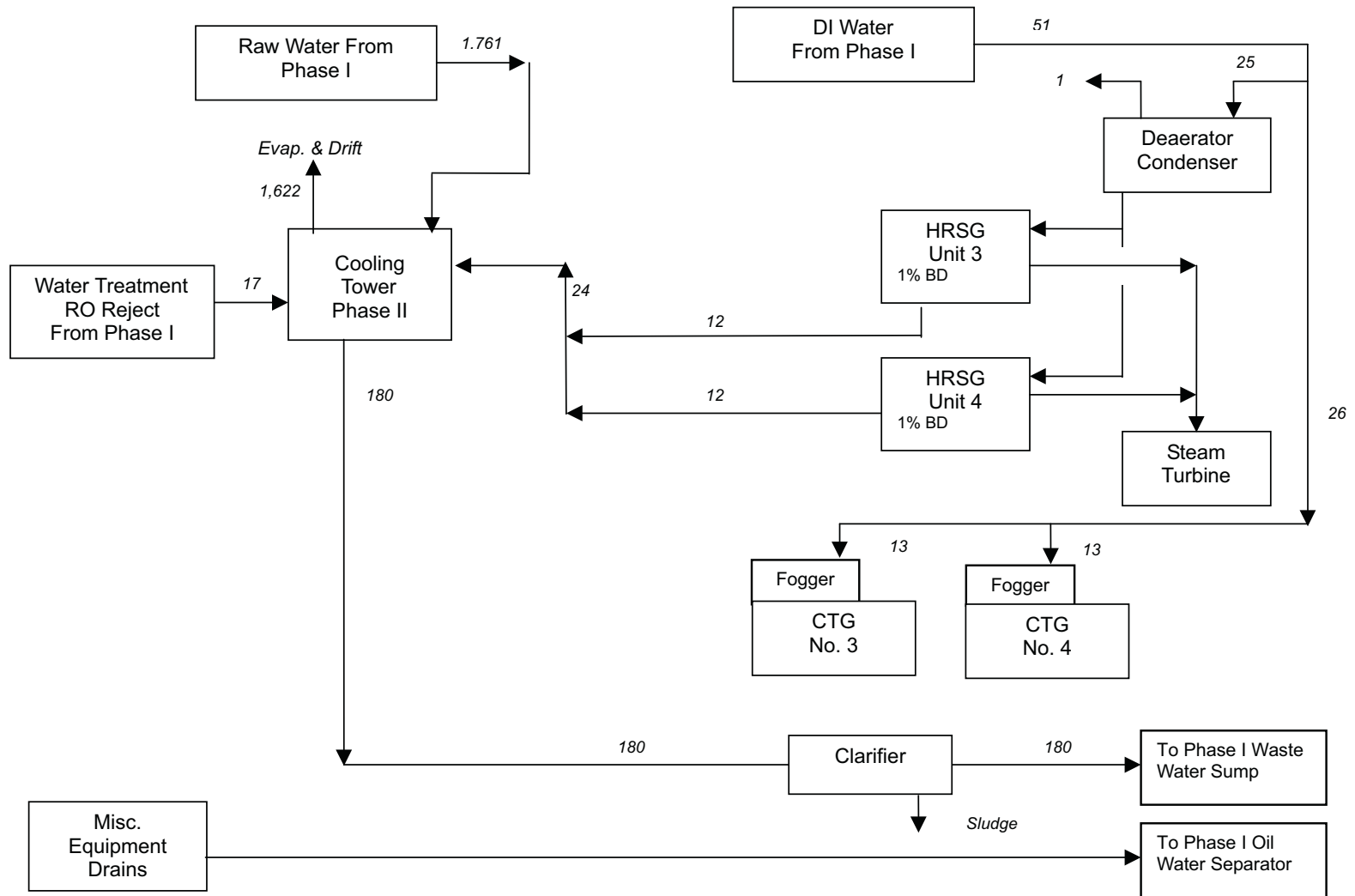
CH2MHILL



NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM (UNLESS NOTED).
 FLOWS ARE BASED ON FULL LOAD OPERATION, ANNUAL AVERAGE TEMPERATURE OF 61 DEGREES F, 53 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 10.0 CYCLES OF CONCENTRATION
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.

SOURCE: PB POWER, INC.

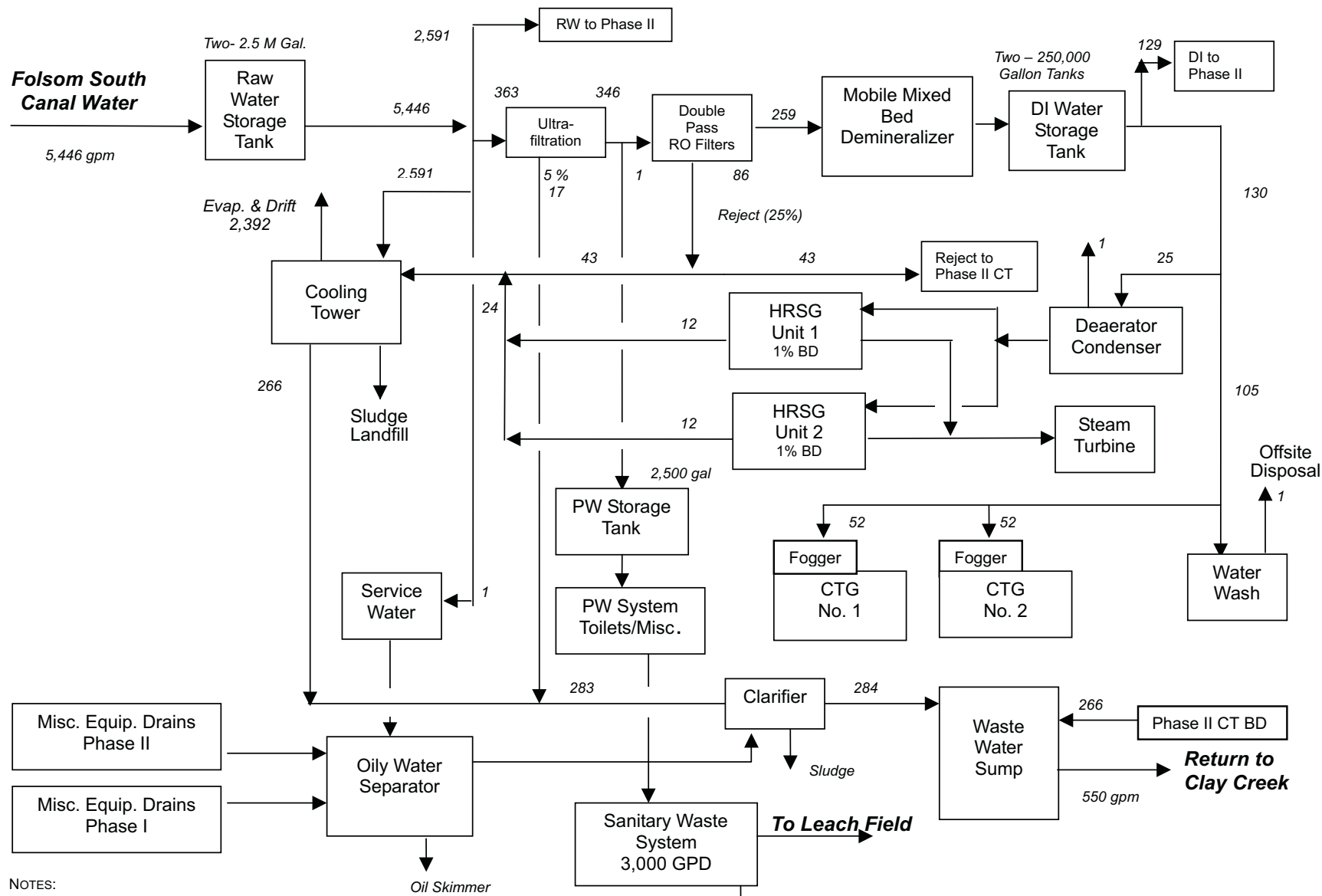
FIGURE 8.14-6a
PHASE I - ANNUAL AVERAGE
WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION, ANNUAL AVERAGE TEMPERATURE OF 61 DEGREES F, 53 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 10.0 CYCLES OF CONCENTRATION
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.

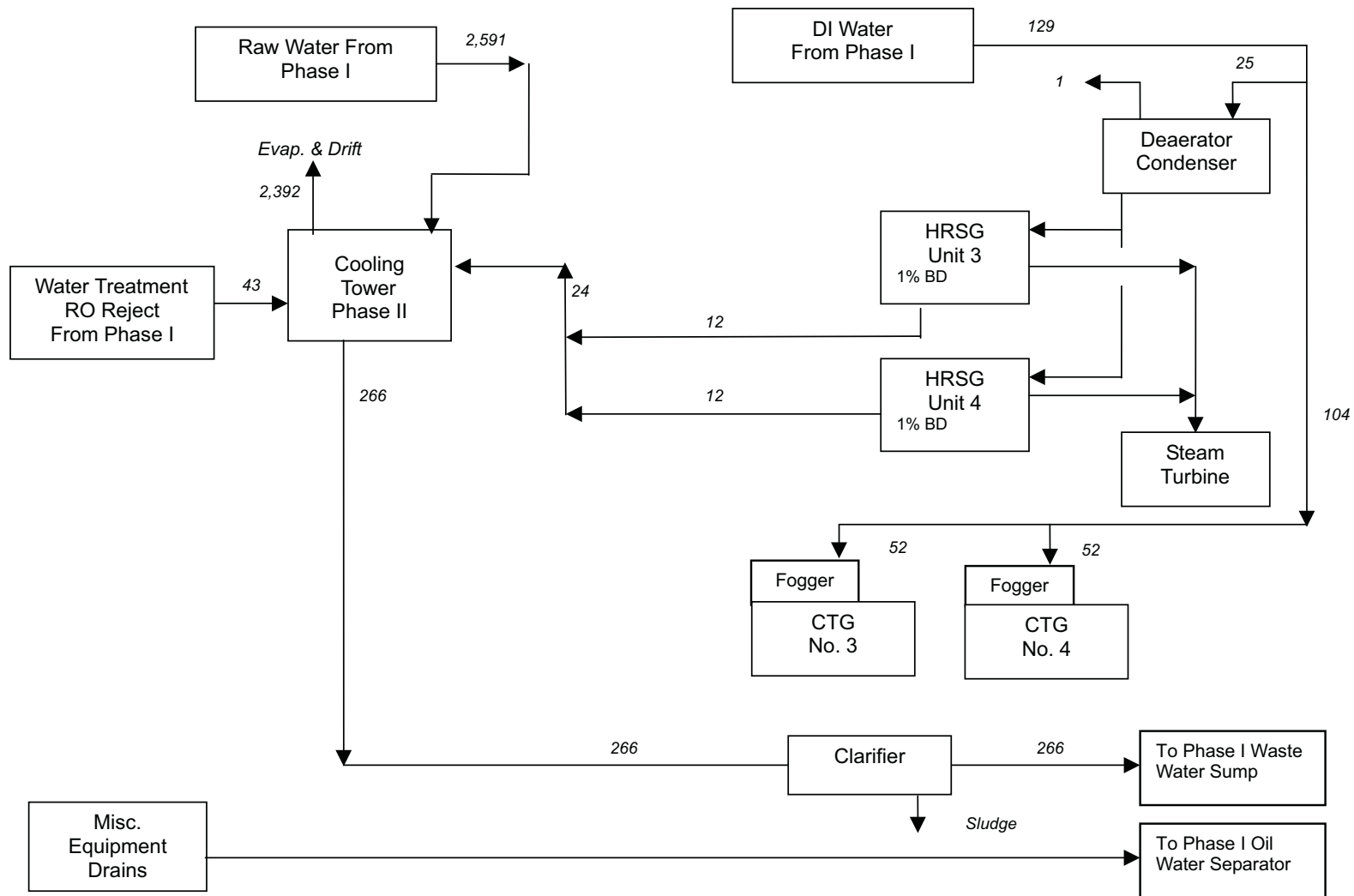
SOURCE: PB POWER, INC.

FIGURE 8.14-6b
PHASE II – ANNUAL AVERAGE
WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION WITH AN AMBIENT TEMPERATURE OF 104 DEGREES F, 70 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 10 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14.6c
PHASE I – 104 DEGREES FAHRENHEIT
PEAK WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



NOTES:
 ALL FLOWRATES ARE GIVEN IN GPM.
 FLOWS ARE BASED ON FULL LOAD OPERATION WITH AN AMBIENT TEMPERATURE OF 104 DEGREES F, 70 WB.
 COOLING TOWER BLOWDOWN IS BASED ON MAINTAINING 10 CYCLES OF CONCENTRATION.
 FLOWS ARE BASED ON FOLSOM SOUTH CANAL WATER CONSTITUENTS SPECIFIED.
 SOURCE: PB POWER, INC.

FIGURE 8.14-6d
PHASE II – 104 DEGREES FAHRENHEIT
PEAK WATER BALANCE DIAGRAM
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION

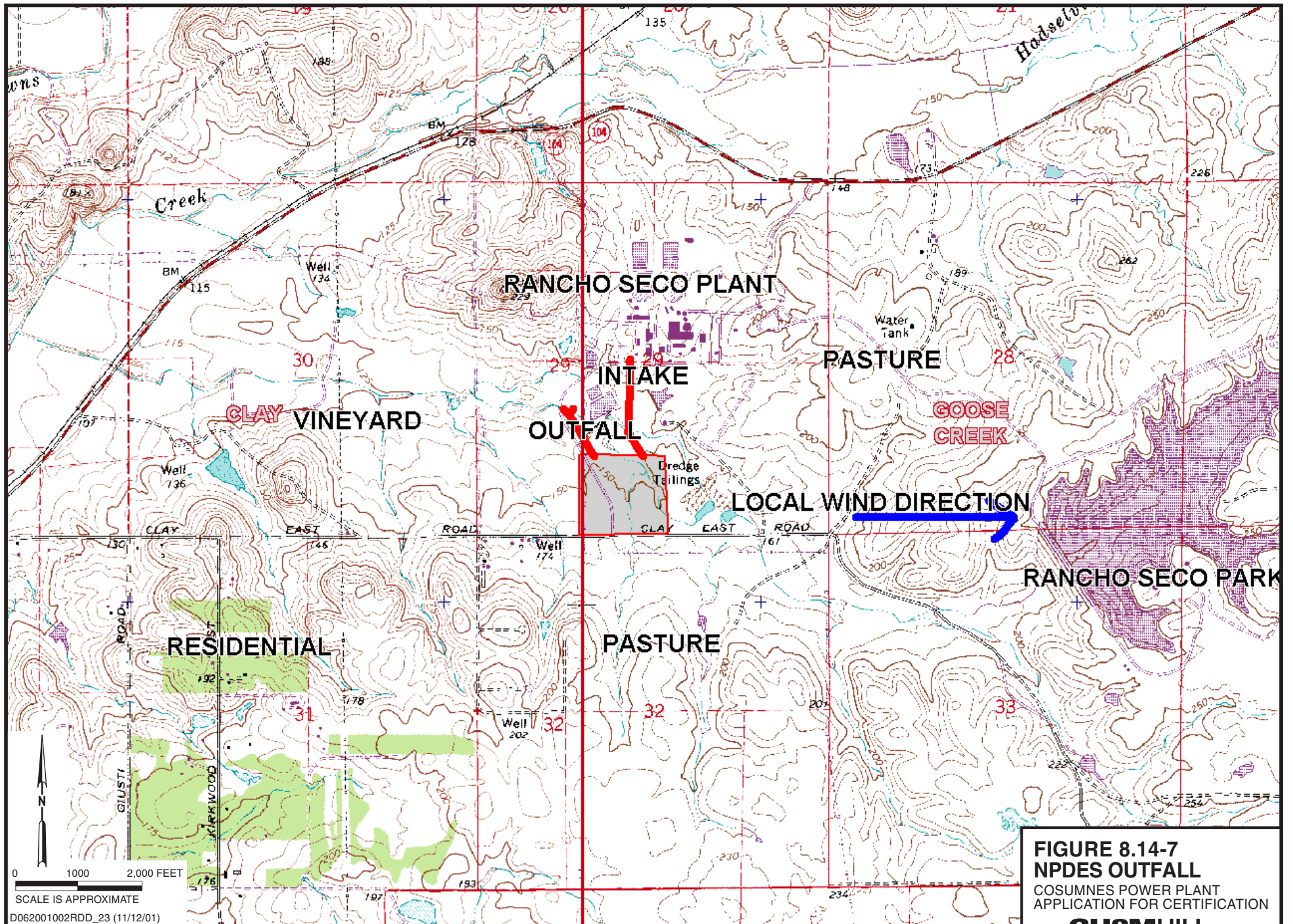
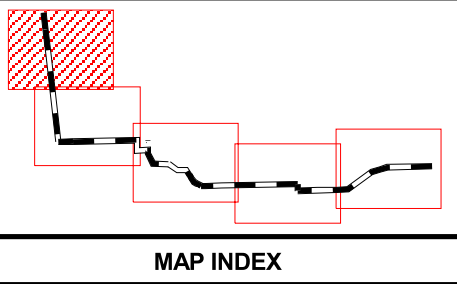
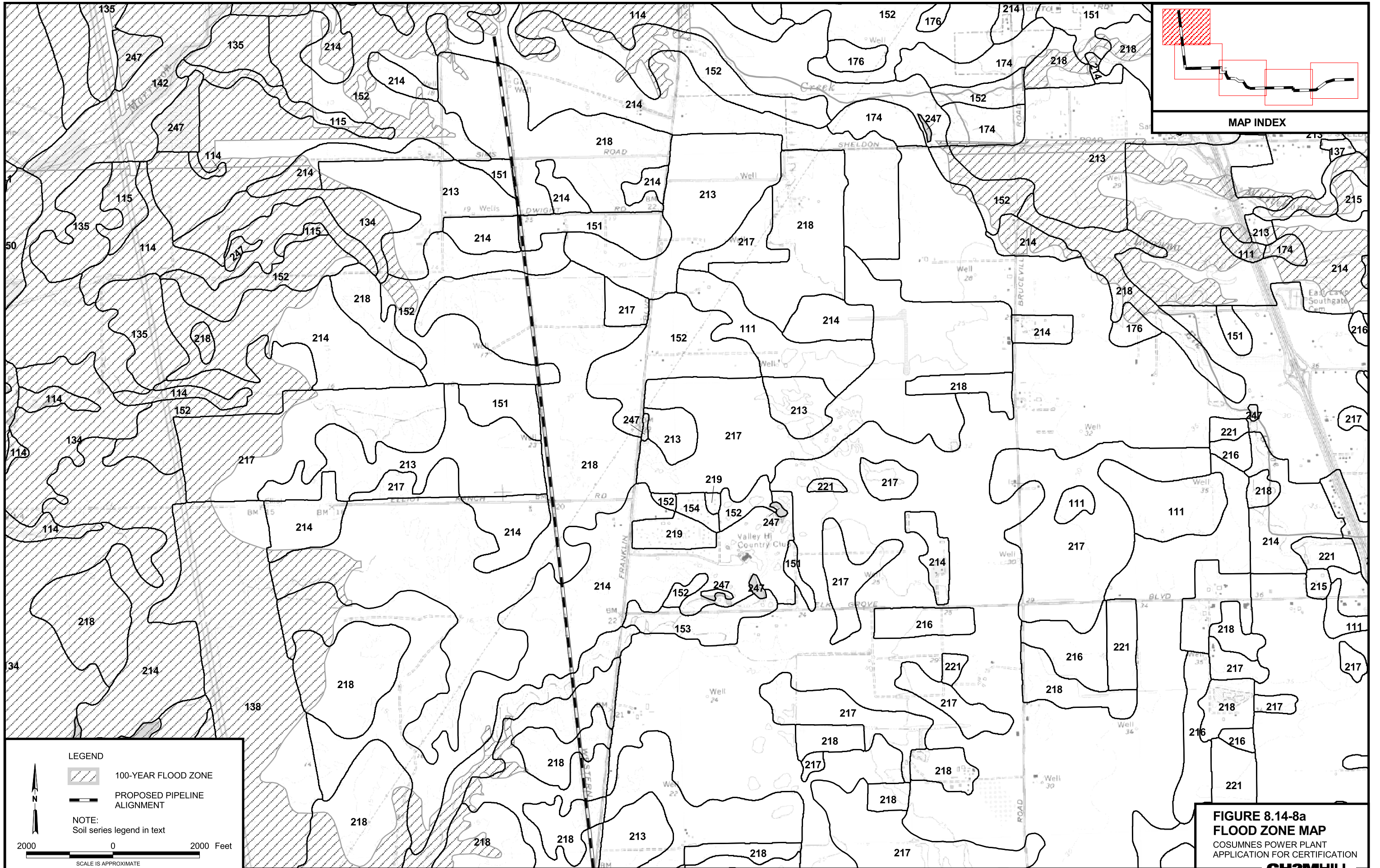




FIGURE 8.14-7
NPDES OUTFALL
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION
CH2MHILL



LEGEND

 100-YEAR FLOOD ZONE

 PROPOSED PIPELINE ALIGNMENT

NOTE:
Soil series legend in text

2000 0 2000 Feet

SCALE IS APPROXIMATE

FIGURE 8.14-8a
FLOOD ZONE MAP
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION

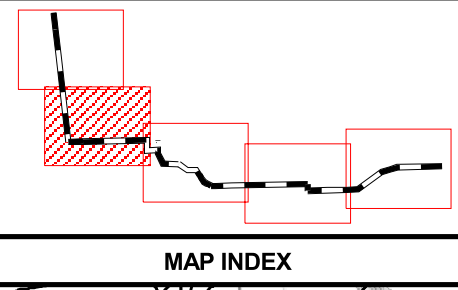
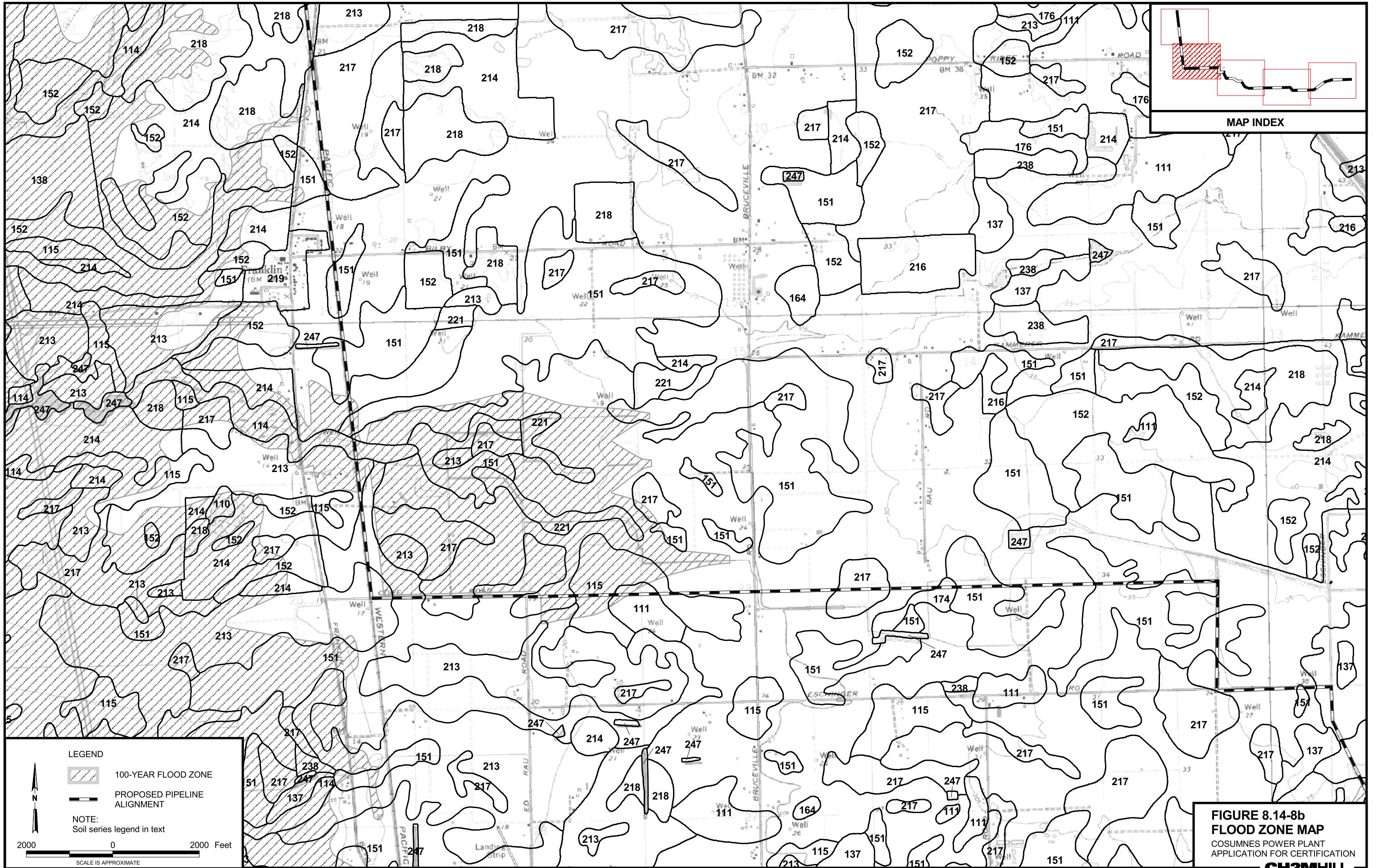


FIGURE 8.14-8b
FLOOD ZONE MAP
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION
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LEGEND

100-YEAR FLOOD ZONE

PROPOSED PIPELINE ALIGNMENT

NOTE:
Soil series legend in text

2000 0 2000 Feet
 SCALE IS APPROXIMATE

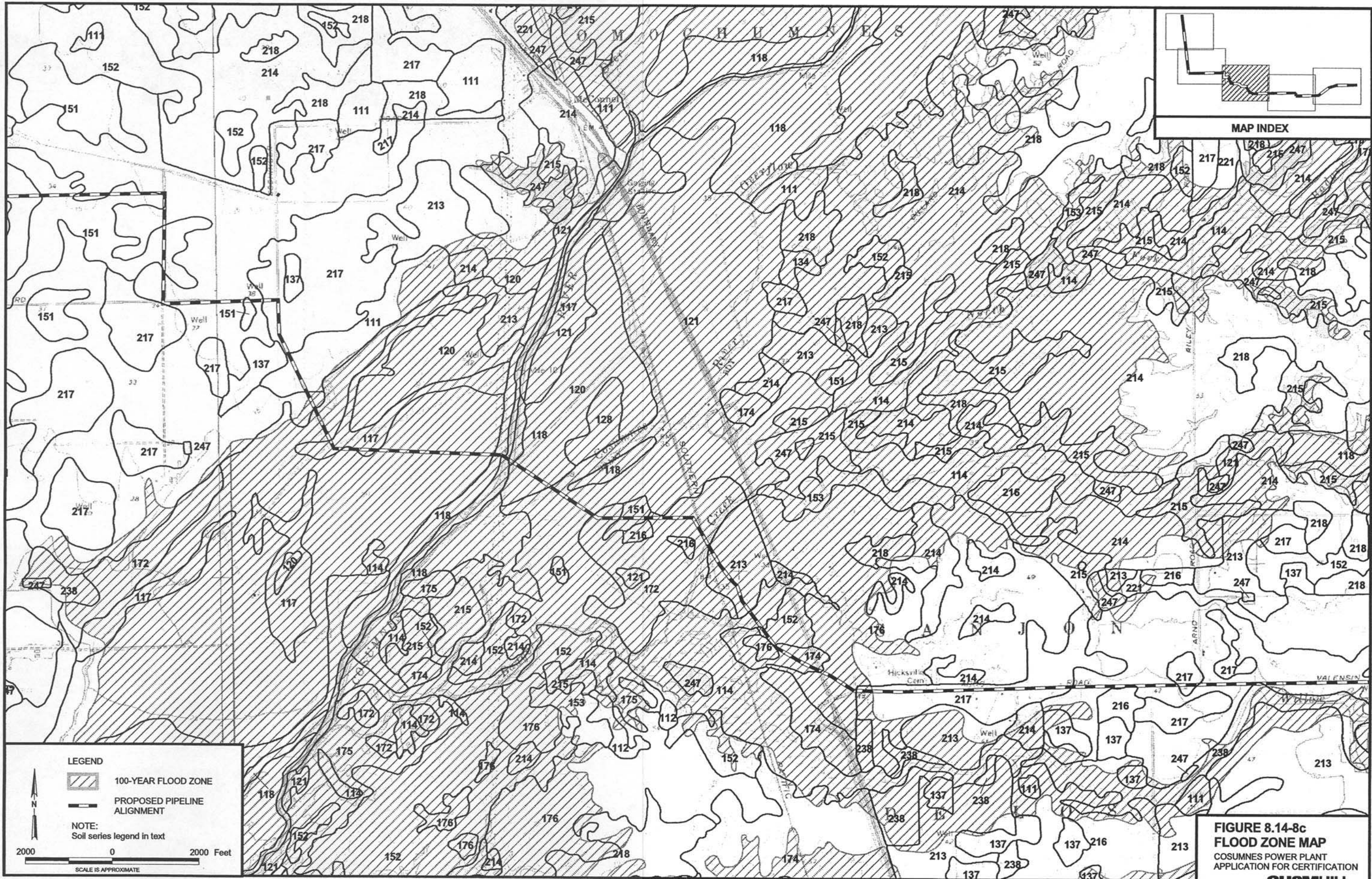
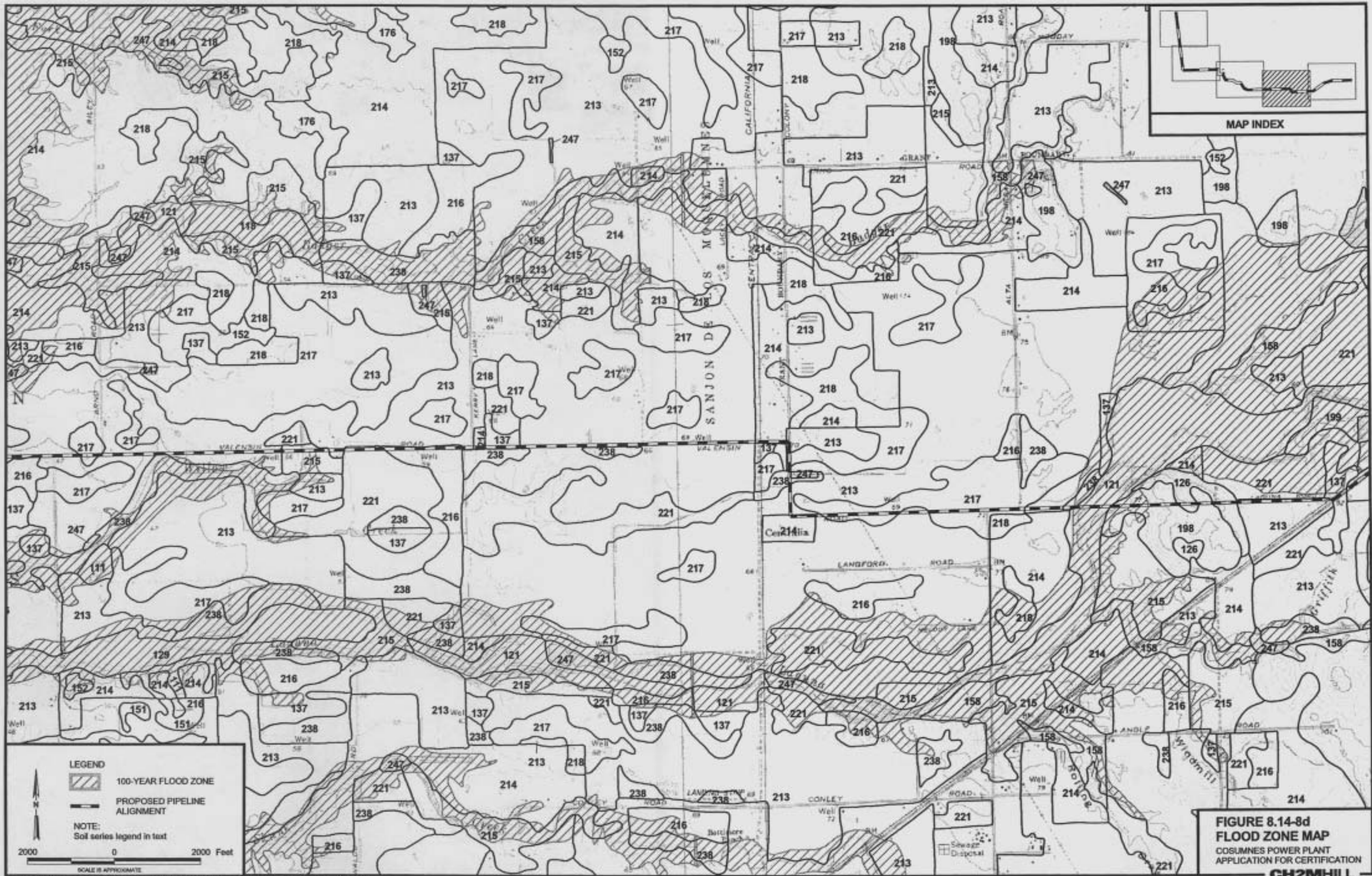


FIGURE 8.14-8c
FLOOD ZONE MAP
 COSUMNES POWER PLANT
 APPLICATION FOR CERTIFICATION



**FIGURE 8.14-8d
FLOOD ZONE MAP**
COSUMNES POWER PLANT
APPLICATION FOR CERTIFICATION

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