



DEPARTMENT OF THE NAVY
MARE ISLAND NAVAL SHIPYARD
VALLEJO, CALIFORNIA 94592

IN REPLY REFER TO:
5090
Ser 461.6/155

MAY 12 1988

Ms. Lila Tang
California Regional Water
Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6040
Oakland, Ca 94607

Dear Ms. Tang:

The attached meeting notes summarize the results of the meeting held on April 11, 1988 between representatives of the Navy, the California Department of Health Services, the Regional Water Quality Control Board, Earth Sciences Associates, and James M. Montgomery Consulting Engineers, Inc. for review of the Toxic Pits Control Act Compliance facilities design project.

Please advise if you have any questions. I can be reached at (707) 646-3375.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. J. Cornils".

W. J. CORNILS
Head, Environmental-Energy
Management Division
By direction of the Shipyard Commander

Enclosure

Copy to:
Ms. Karen Scheuerman
U. S. Environmental Protection Agency
Region IX
215 Fremont Street
San Francisco, CA 94105

Mr. John O'Kane
North Coast California Section
Toxic Substances Control Division
Department of Health Services
5850 Shellmound Drive, Suite 390
Emeryville, CA 94608

Mr. Cliff Covey
Solano County Health Department
601 Texas Street
Fairfield, CA 94533

Commander
Western Division, Naval
Facilities Engineering Command
(Attention: Mr. Dean Peterson)
P. O. Box 727
San Bruno, CA 94066

MAY 13 1988

RECEIVED

**JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.
MEETING NOTES**

SUBJECT: U.S. Navy Mare Island Naval Shipyard Industrial Waste Treatment Plant TPCA Compliance, JMM File 1621.0051/3.3

DATE: April 11, 1988

LOCATION: Mare Island Naval Shipyard
Building 483, Third Floor, Conference Room C

ATTENDEES: Mr. Wil Bruhns, Regional Water Quality Control Board
Ms. Karen Toth, Department of Health Services (DOHS)
Mr. W. C. Cornils, MINS Code 460
Mr. Ralph M. Lee, MINS Code 461
Mr. Tony Lee, MINS Code 461
Mr. Richard Della Valle, MINS Code 461
Mr. Julio Valera, Earth Sciences Associates
Mr. Christopher B. Cain, James M. Montgomery, Consulting Engineers, Inc.

Notes by: C. B. Cain *cmc*

The meeting was scheduled to begin at 8:30 a.m. but was delayed to approximately 9:30 due to a delay in passing the DOHS representative through gate security.

Mr. Cornils opened the meeting and introduced Mr. Valera and Mr. Cain of the ESA/JMM design team. Mr. Valera explained that ESA is handling the planning of the impoundment closures at the IWTP and JMM is designing the replacement facilities. Mr. Cain then made a presentation summarizing the progress made by the Navy toward compliance with TPCA, using fifteen overhead projection charts. Copies of each of these charts are attached in 8-1/2 x 11 inch format.

Mr. Cains presentation covered the following main items:

1. The problem is that the sludge impoundments at the IWTP do not comply with applicable regulations.
2. The existing facilities were summarized and diagrammed.
3. ESA/JMM have evaluated alternatives for TPCA compliance, and the Navy is implementing the recommended solution.
4. The existing ponds will be closed, due largely to the high groundwater table.
5. The replacement facilities consist of blending tanks, sludge dewatering filter presses, and spent chemical recycling tanks.

6. The current design schedule calls for completion of the 100 percent plans and specifications for Navy review by May 25, with a probable bid date of June 29, 1988.

There were no questions during the presentation. Neither regulatory agency representative raised any objection to any aspect of the design for the proposed facilities.

After the presentation, Mr. Bruhns asked if the Navy could meet the schedule for TPCA compliance, which requires that the use of the sludge ponds be discontinued and the ponds emptied by Jan 1, 1989. Mr. Cornils indicated that the Navy was working to meet this schedule, and would unless unforeseen conditions or events interfered. Mr. Bruhns asked if there was a construction schedule and Mr. Cain said that the construction schedule had not been prepared yet, but would be prepared and submitted as part of the 100 percent design.

Ms. Toth indicated that as she was relatively new to DOHS, and she was attending the meeting to listen and receive information rather than to transmit questions or comments.

There was some general discussion regarding the need for the Navy to apply for and acquire the proper permits for the New IWTP facilities.

It was pointed out that DOHS issues permit for hazardous waste treatment and pretreatment plants, while RCRA provides an exclusion for pretreatment plants. Thus, a state permit (or variance or modified Part A) may be needed for the Navy Mins IWTP.

The State has an exclusion from some hazardous waste regulations for on-site recycling that may apply to the spent chemical recycling tanks.

The meeting was adjourned at approximately 10:45 a.m.

MARE ISLAND NAVAL SHIPYARD

INDUSTRIAL WASTE TREATMENT SYSTEM

TOXIC PITS CONTROL ACT

COMPLIANCE FACILITIES

PRESENTATION OBJECTIVE:

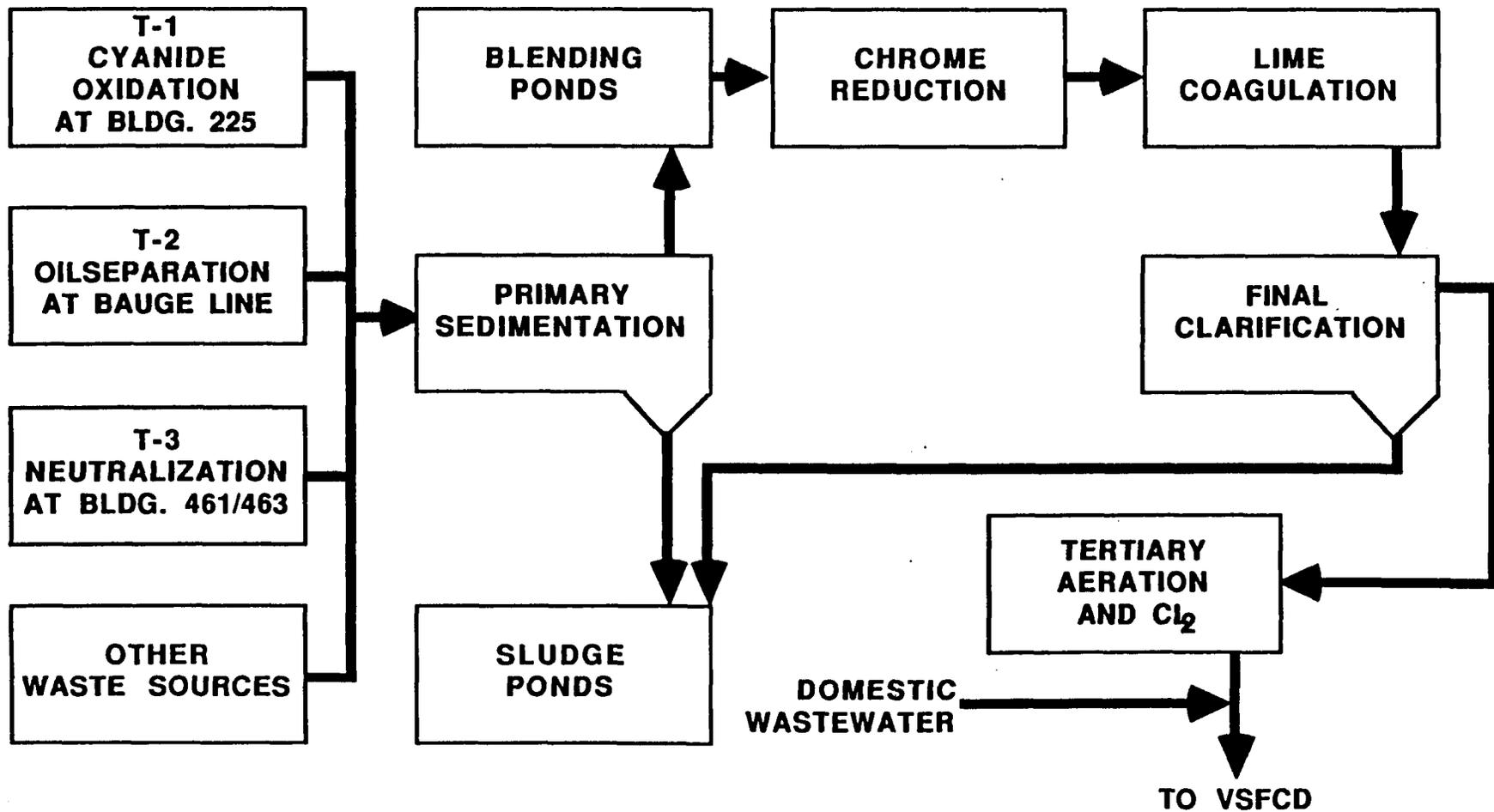
**DOCUMENT PROGRESS TOWARDS NAVY
COMPLIANCE WITH TPCA AT MINS IWTP**

- o PROBLEM: SLUDGE IMPOUNDMENTS
DO NOT COMPLY WITH REGULATIONS**
- o ESA/JMM HAVE EVALUATED ALTERNATIVE
SOLUTIONS**
- o ESA/JMM ARE DESIGNING REPLACEMENT
FACILITIES AND PLANNING POND CLOSURE**

MAJOR EXISTING FACILITIES:

- o PRIMARY CLARIFIER**
- o BLENDING AND EQUILIZATION**
- o CHROME REDUCTION**
- o LIME PRECIPITATION**
- o SECONDARY CLARIFIER**

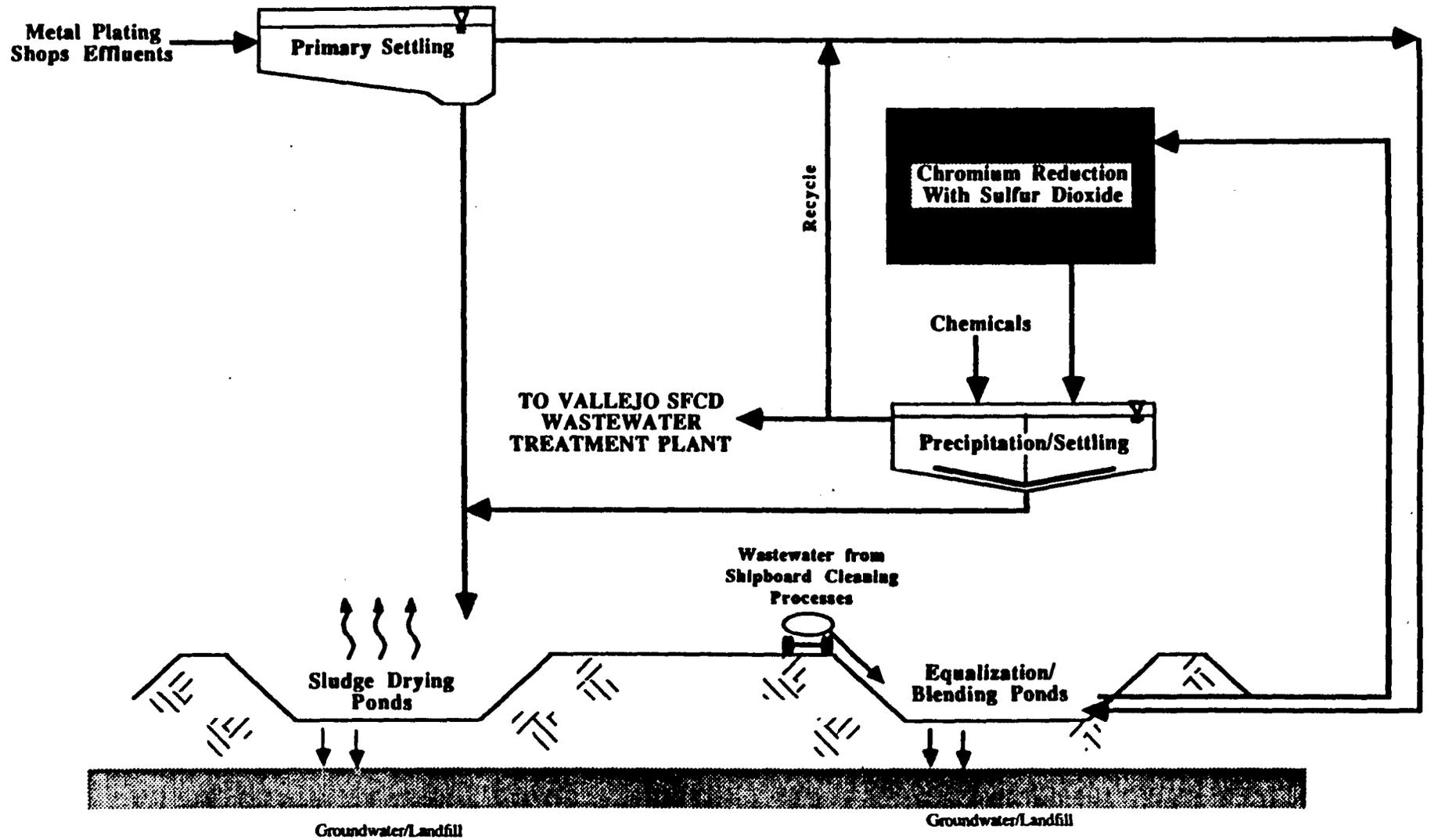
MINS Industrial Waste Treatment System



**MINS IWTP INCLUDES HAZARDOUS WASTE
IMPOUNDMENTS THAT DO NOT COMPLY
WITH REGULATIONS**

- METAL PLATER SLUDGE IS HAZARDOUS
BY DEFINITION**
- POOR LINER AND GROUNDWATER CONDITIONS**
- NEED IMPROVED SPENT CHEMICAL
METERING AND BLENDING**

MARE ISLAND INDUSTRIAL WASTE PRETREATMENT SYSTEM SCHEMATIC



ESA/JMM Alternative Solutions Combine Basic Options

- **SLUDGE PONDS: CLOSE, REHAB, OR ADD DEWATERING**
 - **BLENDING PONDS: CLOSE, REHAB, OR REPLACE WITH TANKS**
 - **PRETREATMENT: REMOVE HAZ WASTE, CONTROL PEAK FLOWS**
 - **SEWERS: REROUTE, REPLACE, REPAIR, ABANDON**
-
-

Identification and Evaluation of
Alternatives for TPCA Compliance

TABLE 6-1

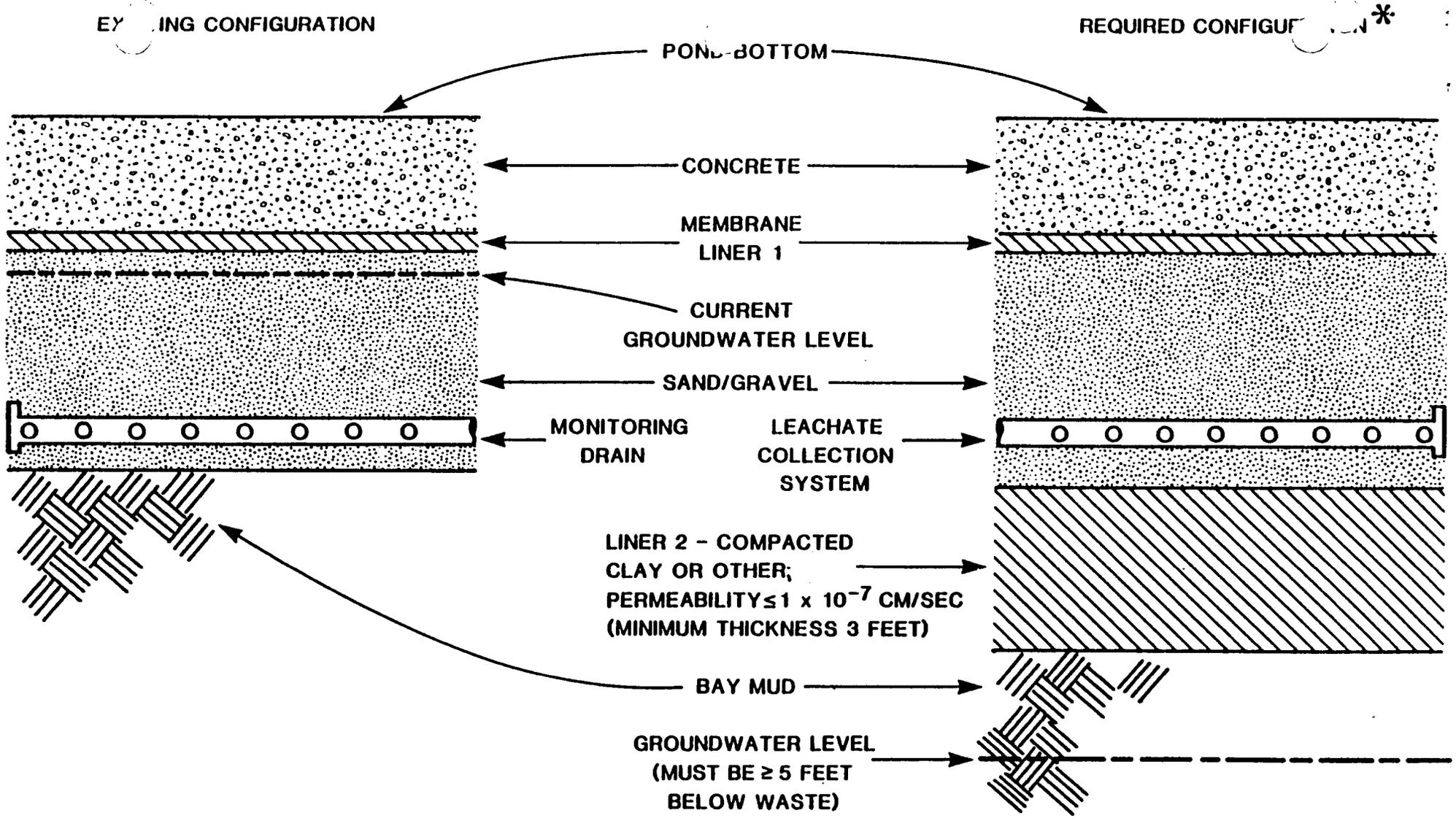
**ALTERNATIVES FOR ACHIEVING COMPLIANCE
WITH THE REQUIREMENTS OF THE TPCA**

	ALTERNATIVE NO.					
	1	2	3	4	5	6
<u>Source Control</u>						
Reduction	X		X	X	X	X
Combination/Relocation	X		X	X	X	X
Segregation	X		X	X	X	X
Spent Bath Management	X		X	X	X	X
Satellite Treatment	X					
<u>Industrial Wastewater Treatment Plant^a</u>						
Abandon Facility	X					
Eliminate Blending Ponds	X ^b	X	X			X
Install Equalization Tanks		X				X
Construct New Ponds				X		
Maintain Ponds (Nonhazardous)					X	
Eliminate Sludge Ponds	X ^b	X	X		X ^c	X
Construct Sludge Management System		X	X		X	X
Construct New Sludge Ponds				X		
<u>Industrial Wastewater Pretreatment Plants</u>						
Rehabilitate	X					
Upgrade/Expand	X					
<u>Wastewater Conveyance System</u>						
Replace/Rehabilitate	X		X	X	X	X
Abandon	X					
New Construction (Segregation)	X					

^a Alternatives 2, 3, 4, 5, and 6 assume IWTP can Comply with VFSCD Pretreatment Requirements.

^b Close Ponds as Part of Abandonment.

^c Clean sludge ponds and convert to nonhazardous use as equalization ponds.

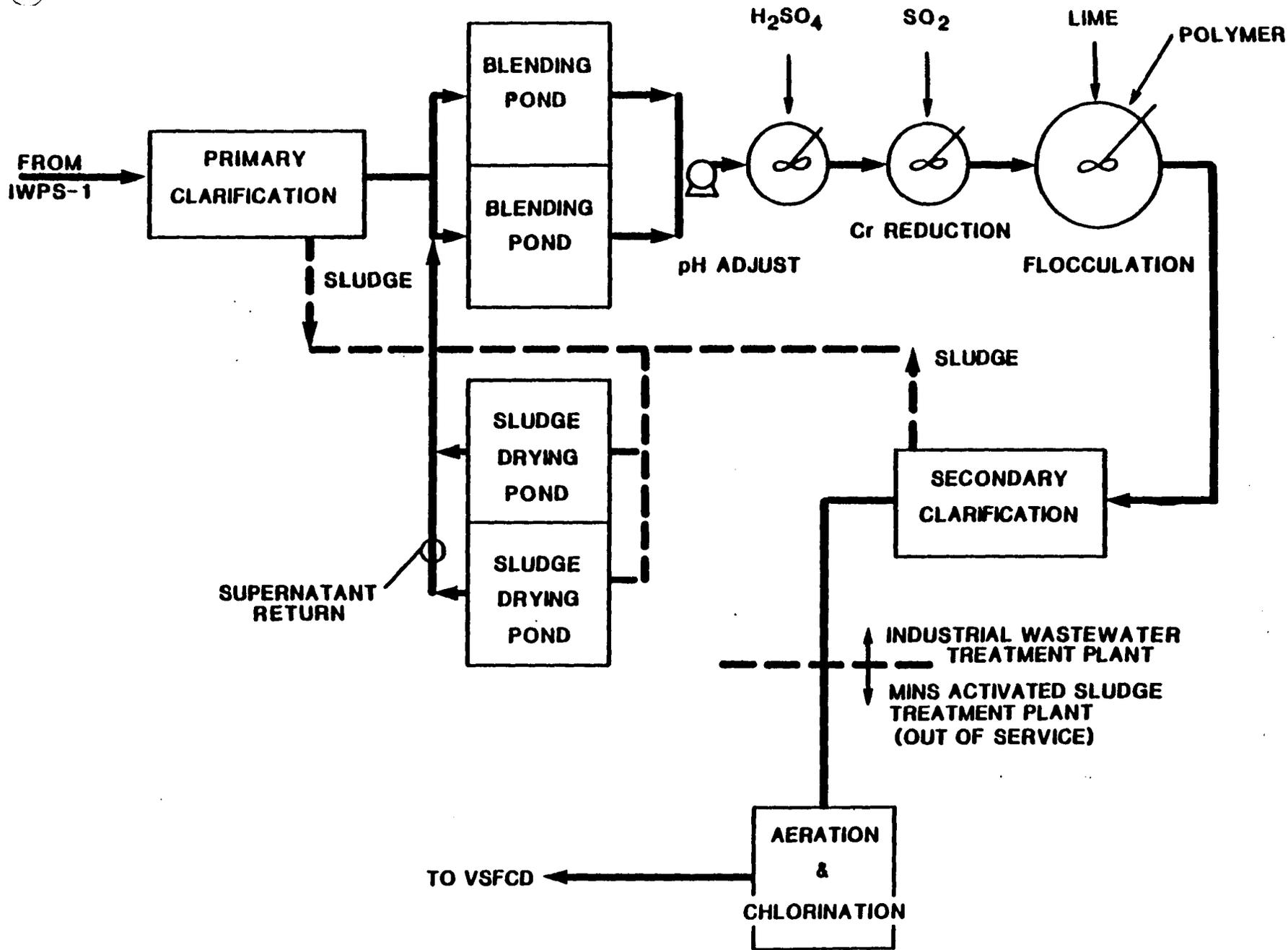


* PER TOXIC PITS CLEANUP ACT.

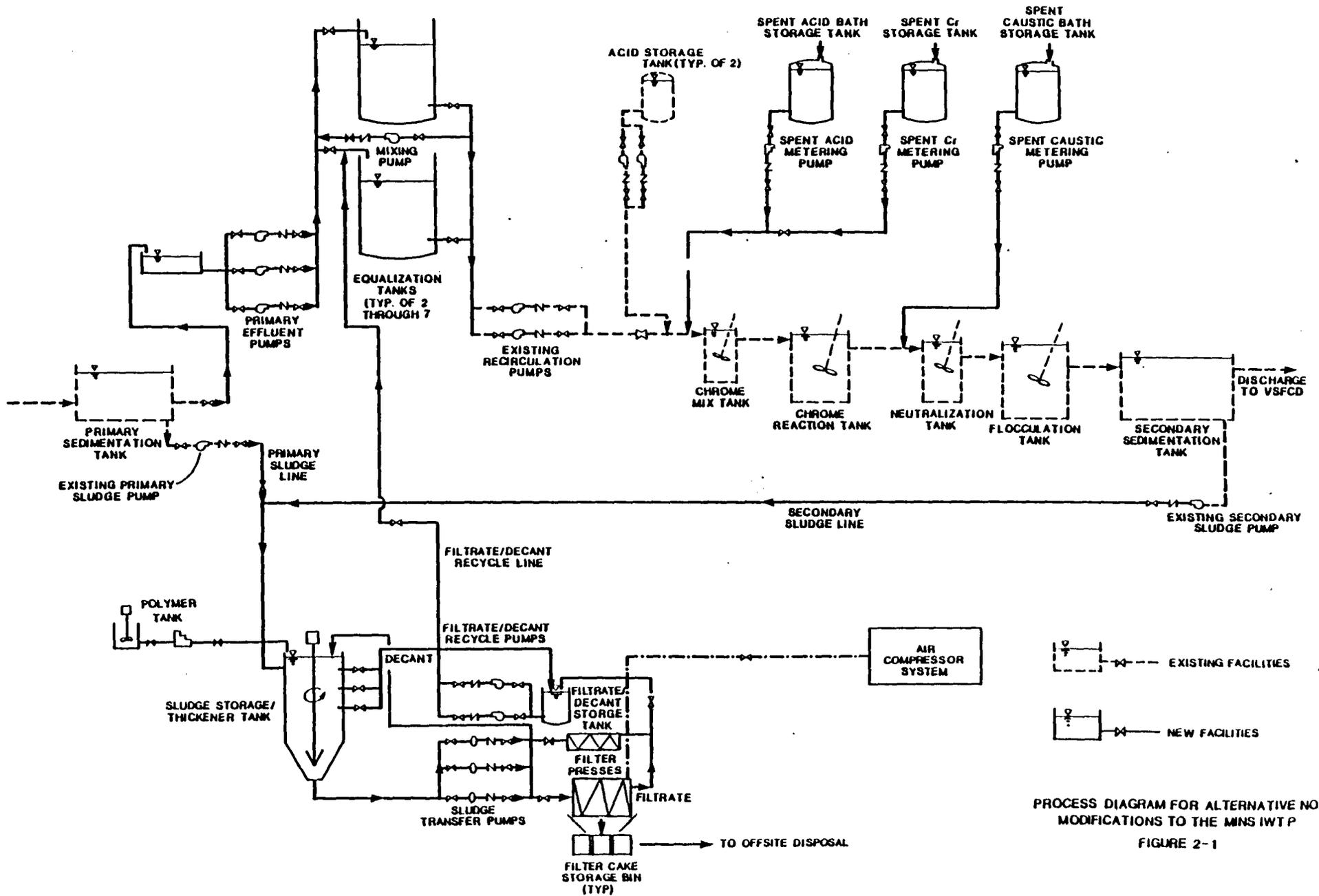
EXISTING AND REQUIRED POND CONFIGURATIONS
FIGURE 4-1

THE SELECTED ALTERNATIVE INCLUDES:

- 1. MECHANICAL SLUDGE DEWATERING**
- 2. ABOVE GROUND BLENDING TANKS**
- 3. CLOSURE OF SLUDGE AND BLENDING PONDS**
- 4. ADDITIONAL SOURCE CONTROL FOR SPENT CHEMICAL WASTES**
- 5. SPENT CHEMICAL TANKAGE AND METERING**

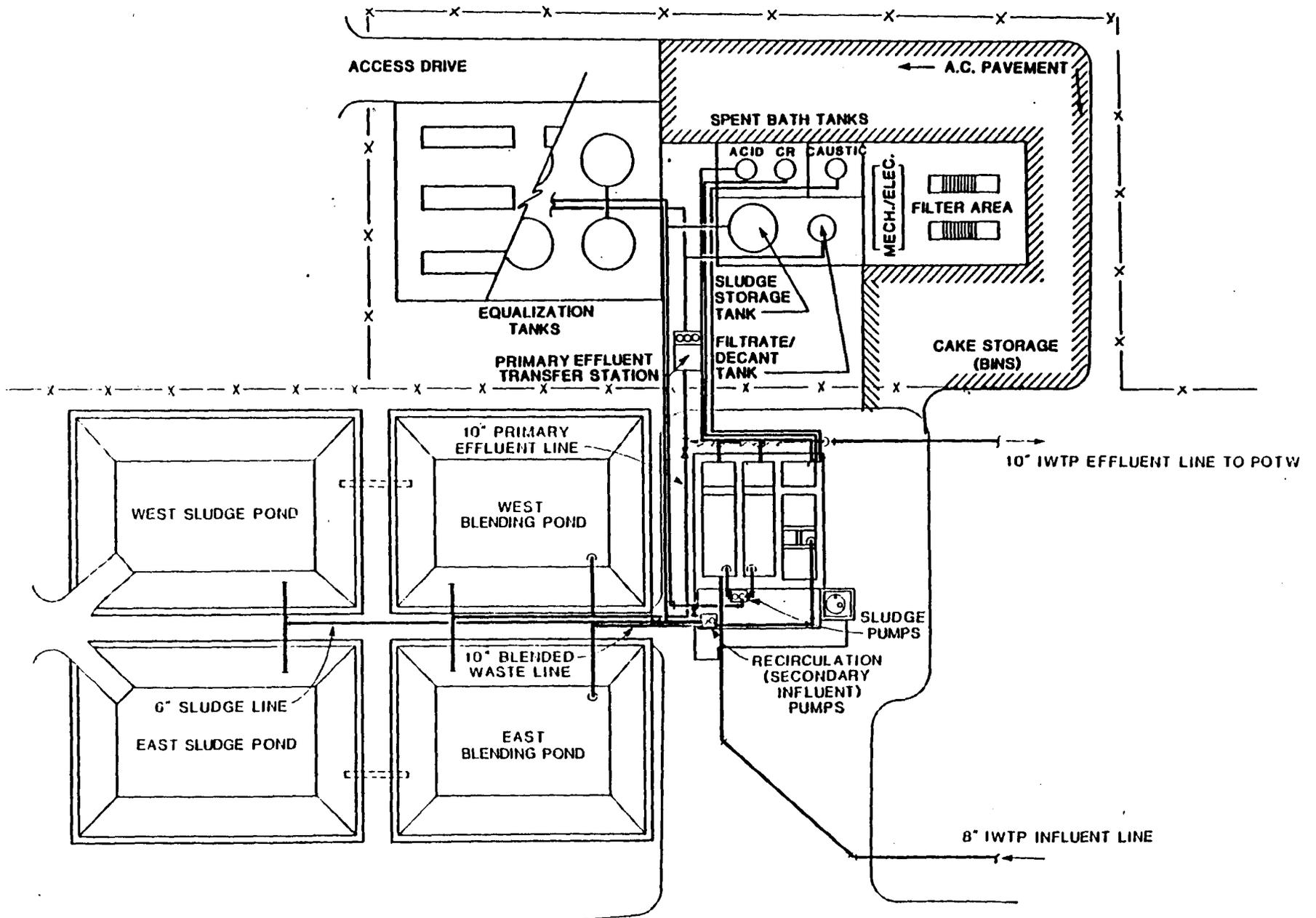


PROCESS DIAGRAM OF MINS IWTP
 FIGURE 3-5



PROCESS DIAGRAM FOR ALTERNATIVE NO. 6
MODIFICATIONS TO THE MNS IWT P

FIGURE 2-1



SCHEDULE FOR DESIGN:

NOTICE TO PROCEED: JAN 25, 1988

10% DESIGN SUBMITTAL: FEB 23

DESIGN REVIEW MEETING: MAR 7

DRAFT SOILS AND SURVEY: APRIL 5

100% DESIGN SUBMITTAL: MAY 25

ISSUE FOR BIDDING: JUNE 29

**THE NAVY IS PROCEEDING TO DESIGN
AND CONSTRUCT IWTP IMPROVEMENTS
TO COMPLY WITH TPCA, AND
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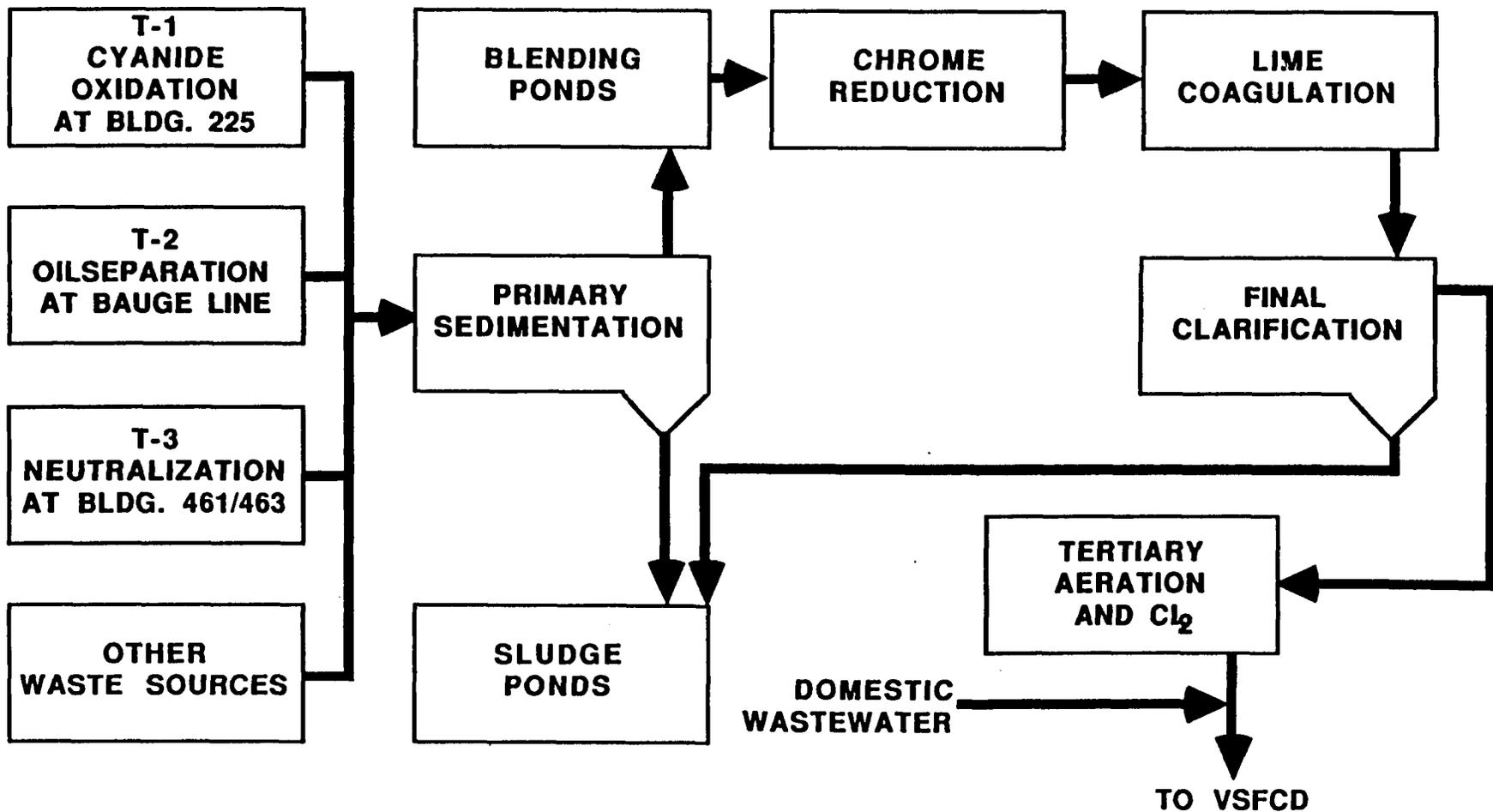
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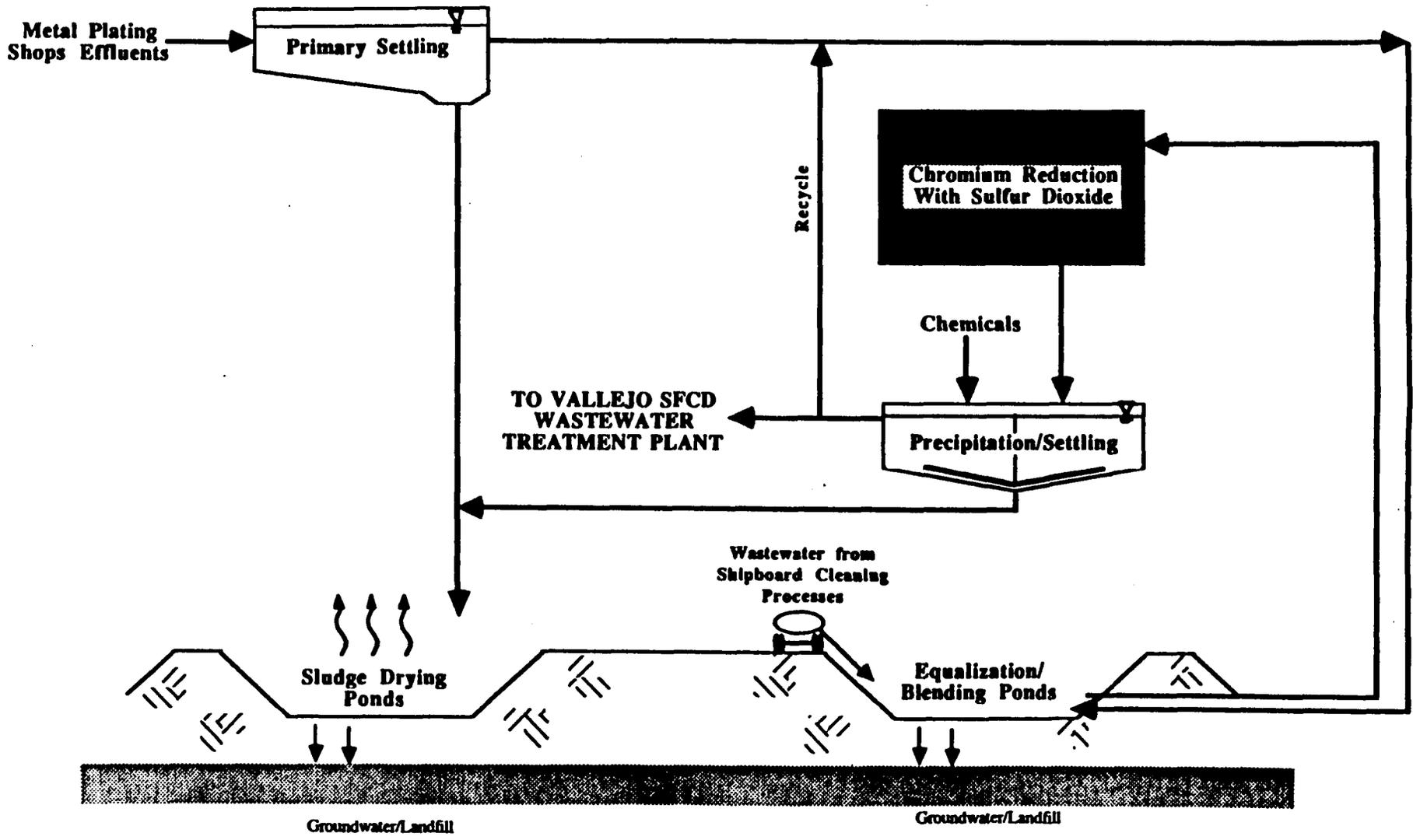
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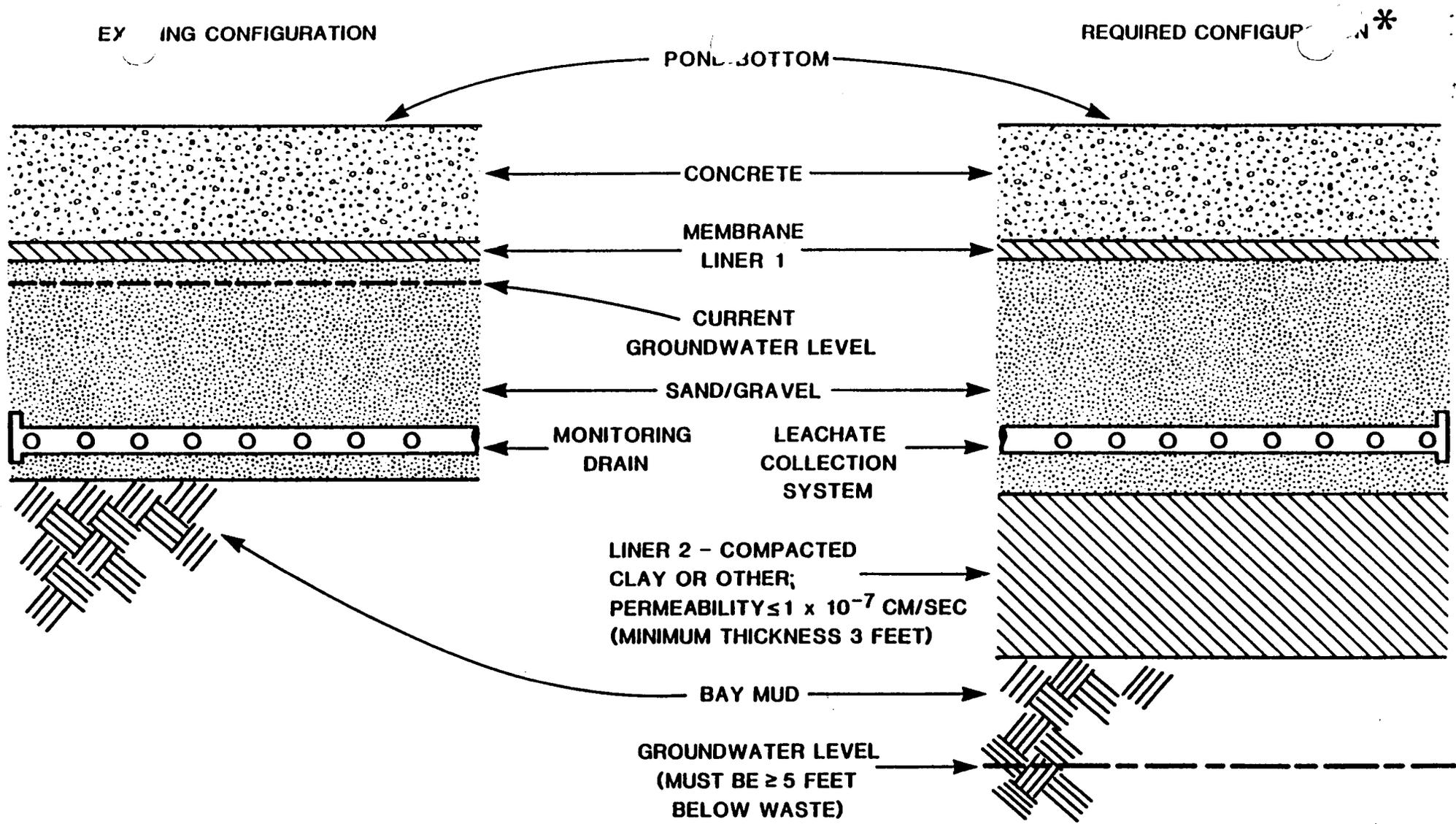
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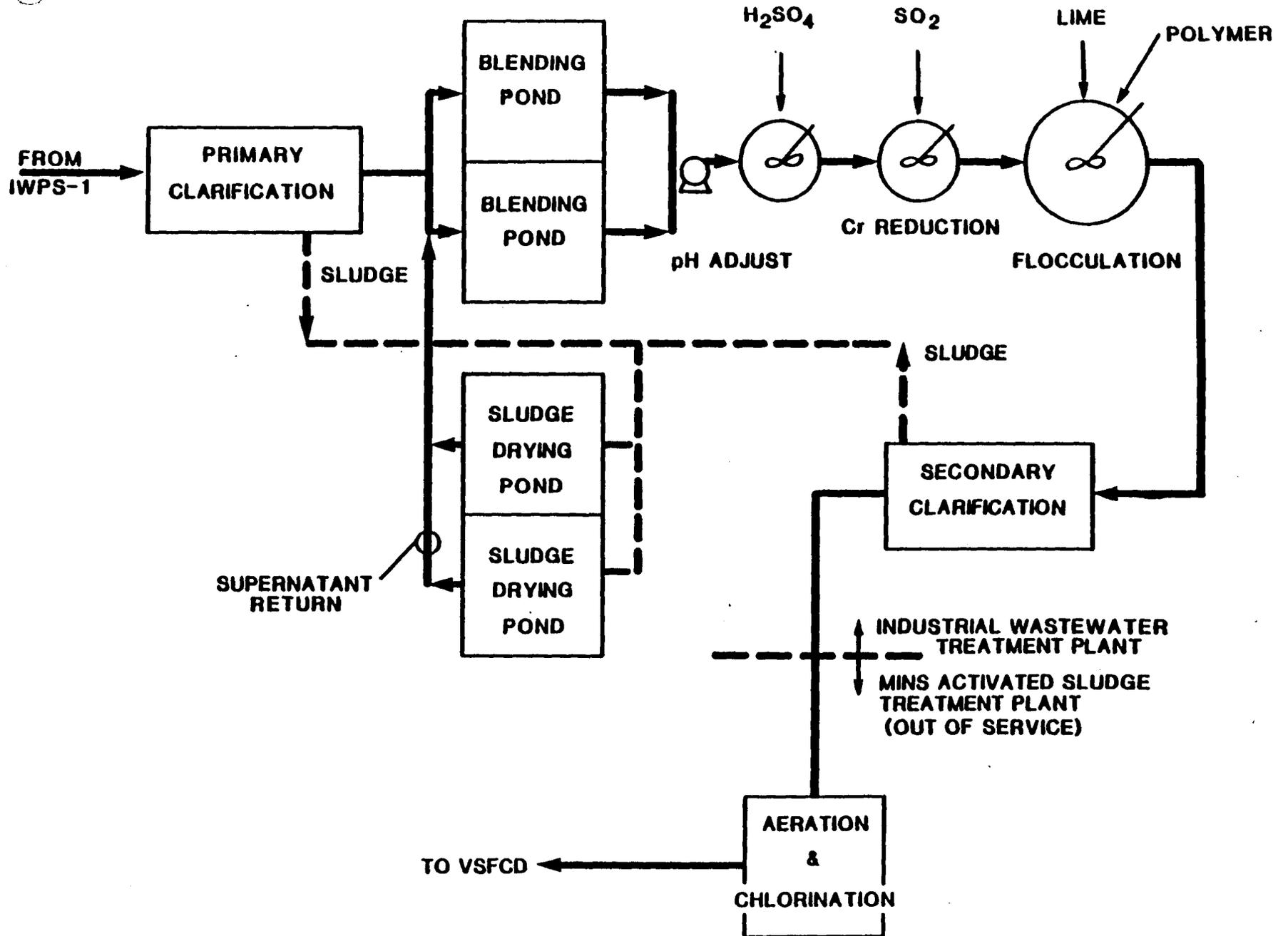


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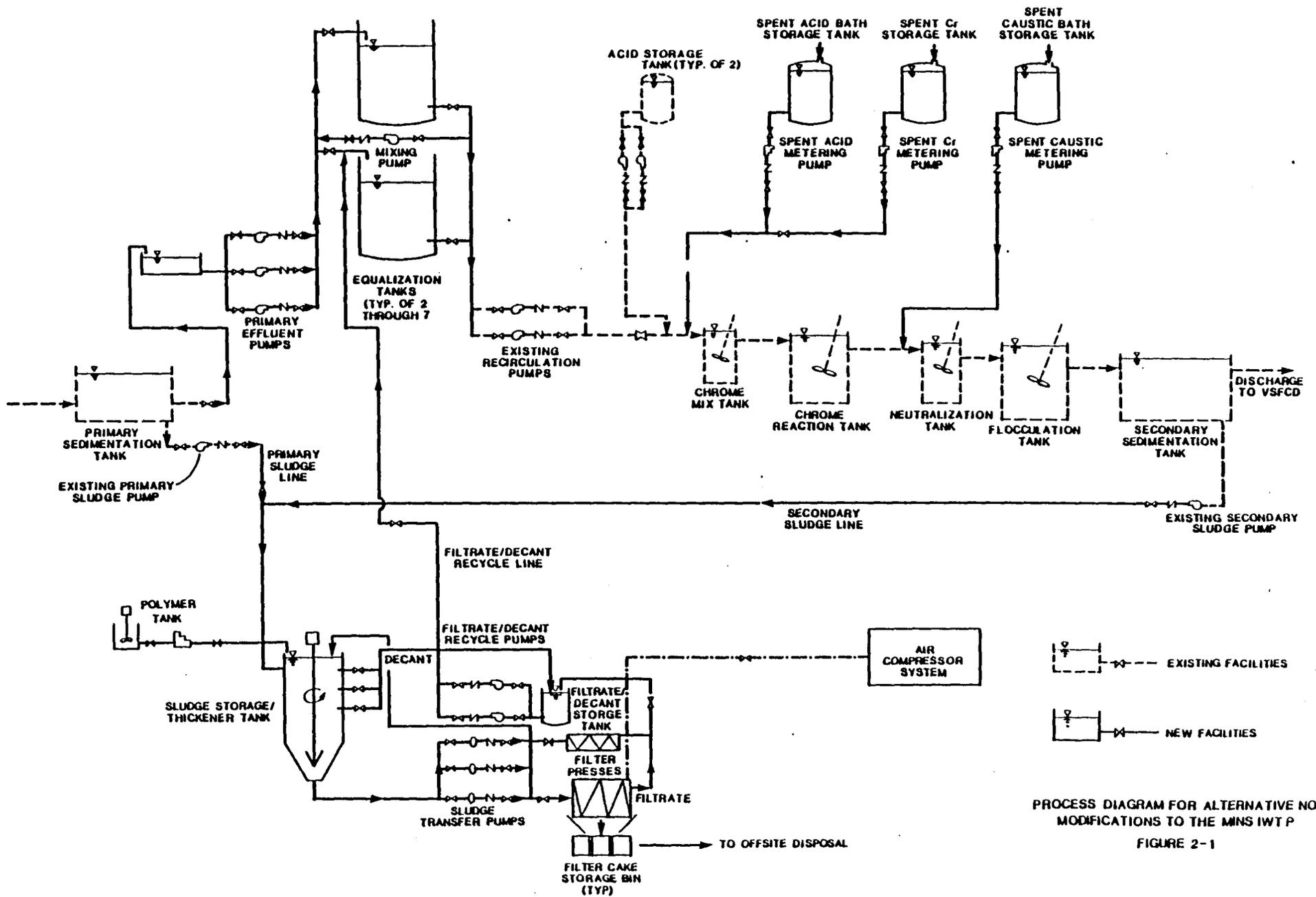
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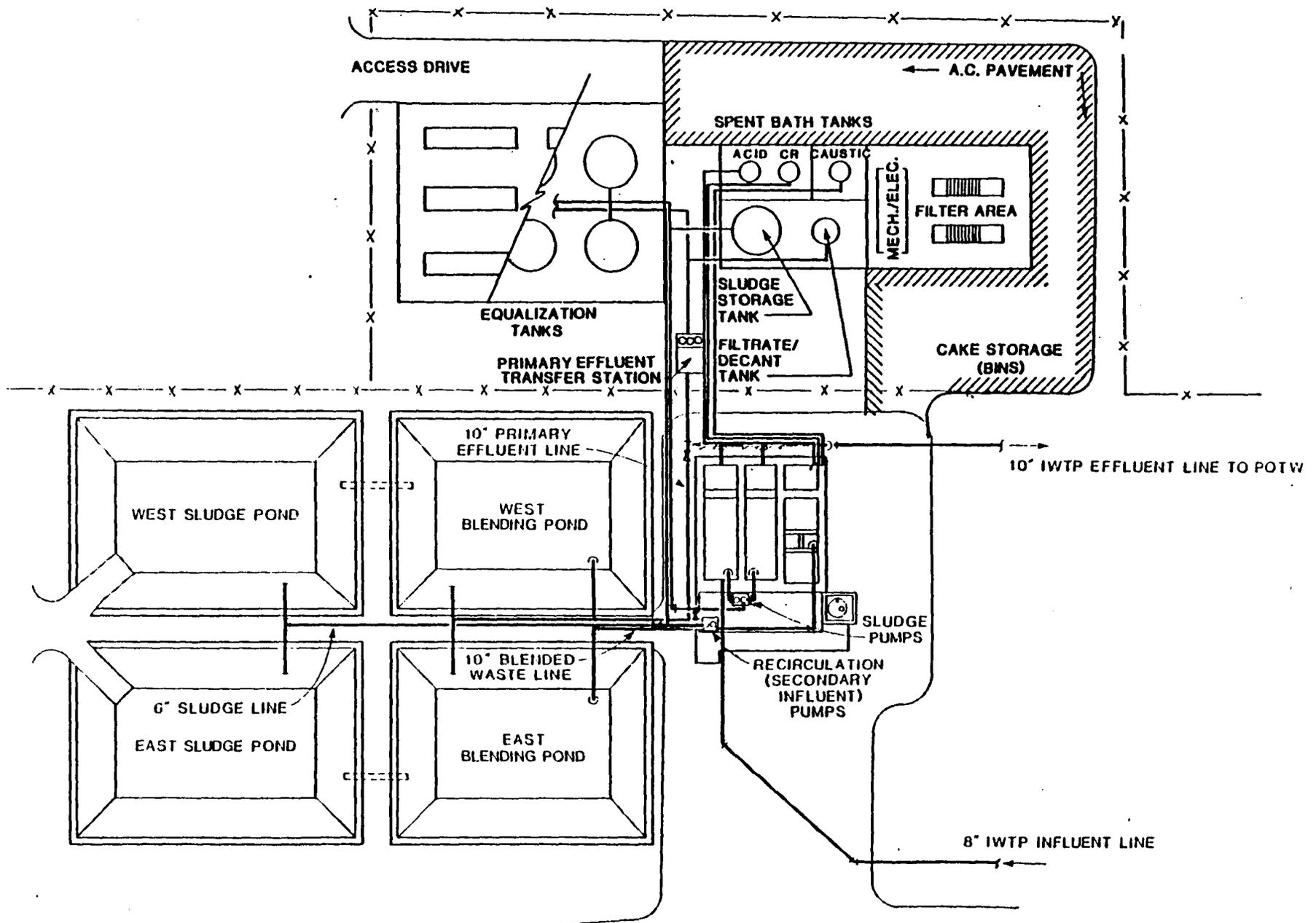
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