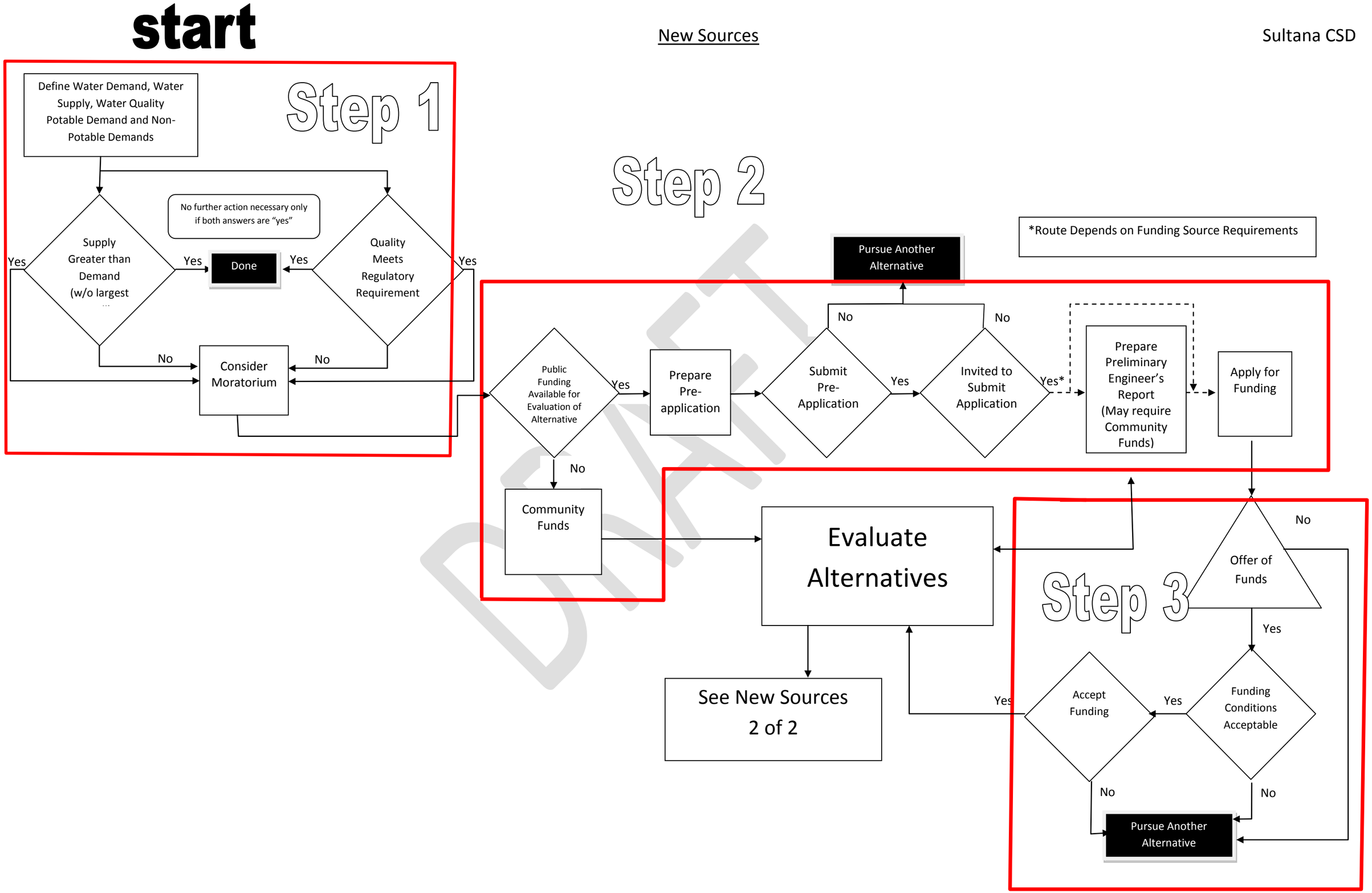
start
Step 1
Define Water Demand, Water Supply, Water Quality Potable Demand and Non-Potable Demands
No further action necessary only if both answers are "yes"
Supply Greater than Demand (w/o largest
Yes
Yes
Done
Yes
Quality Meets Regulatory Requirement
Yes
No
Consider Moratorium
No
Step 2
*Route Depends on Funding Source Requirements
Pursue Another Alternative
No
No
Public Funding Available for Evaluation of Alternative
Yes
Prepare Pre-application
Submit Pre-Application
Yes
Invited to Submit Application
Yes*
Prepare Preliminary Engineer's Report (May require Community Funds)
Apply for Funding
No
Community Funds
Evaluate Alternatives
See New Sources 2 of 2
Step 3
No
Offer of Funds
Yes
Yes
Accept Funding
Yes
Funding Conditions Acceptable
No
No
Pursue Another Alternative

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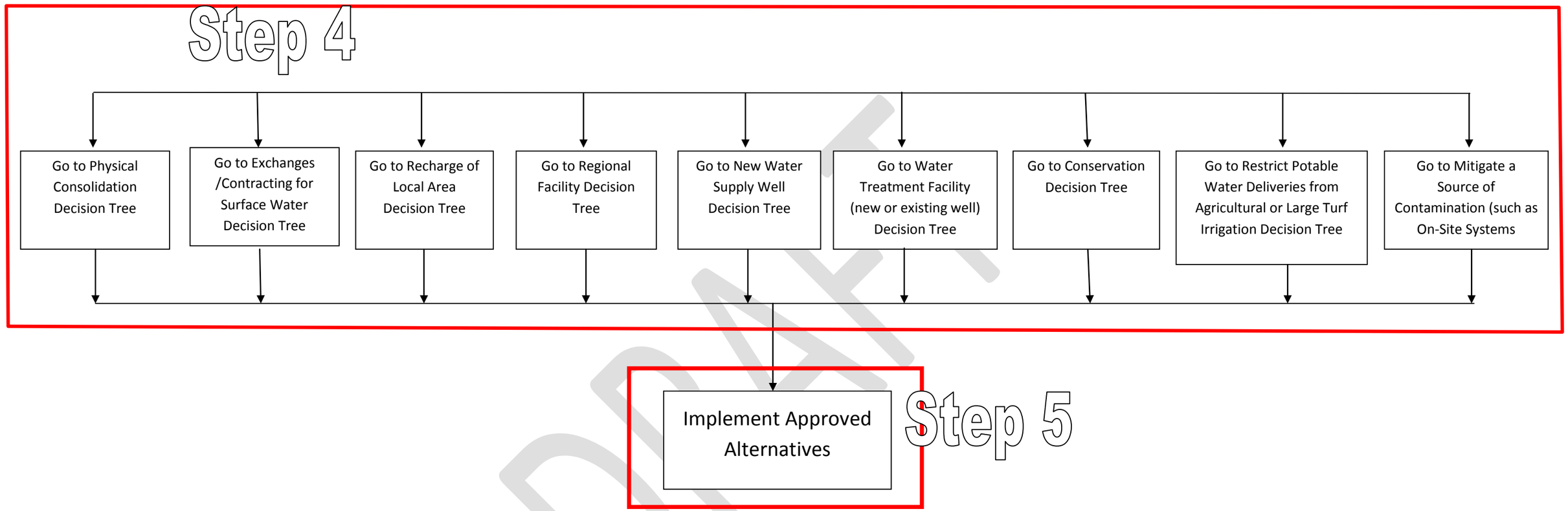
See New Sources
1 of 2



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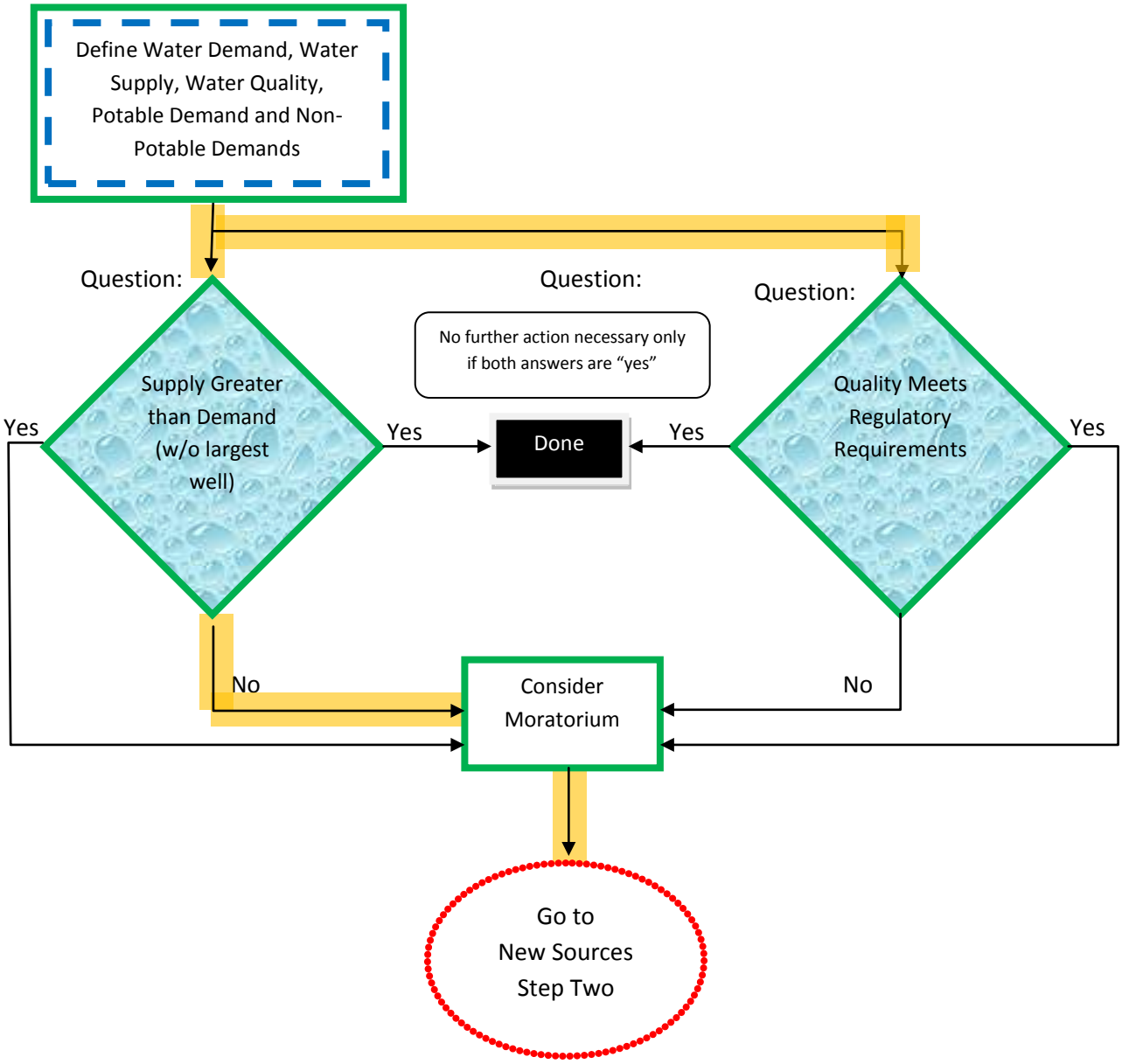
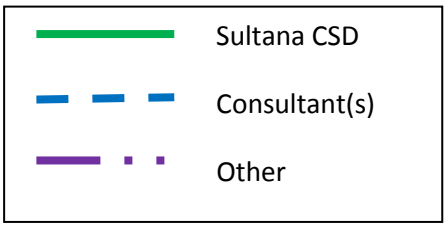
New Sources

Step One





New Sources

Step One

Sultana CSD

Population 890
Connections 203

Residential Water Rates $23.45 / month flat rate since at least 2002

Water System Constructed in 1977

Sewer System Constructed in 1984

Well 3 Constructed in 1996

MHI $42,321 Updated $30,956 (1-17-13) 1.5% of 30,956 = $464.34/mp

Well 1 removed from service in 2005 (high nitrate, DBCP)

Well 2 not in operation much since 2005 (high nitrate, DBCP), remains active from a permit standpoint

Well 3 Active

Water Demands – Unknown
Potable
Non Potable

Water Supply < Demand without largest well

Many valves are not operable

Unknown system losses

Constant Chlorination at Well 3

Neighboring community

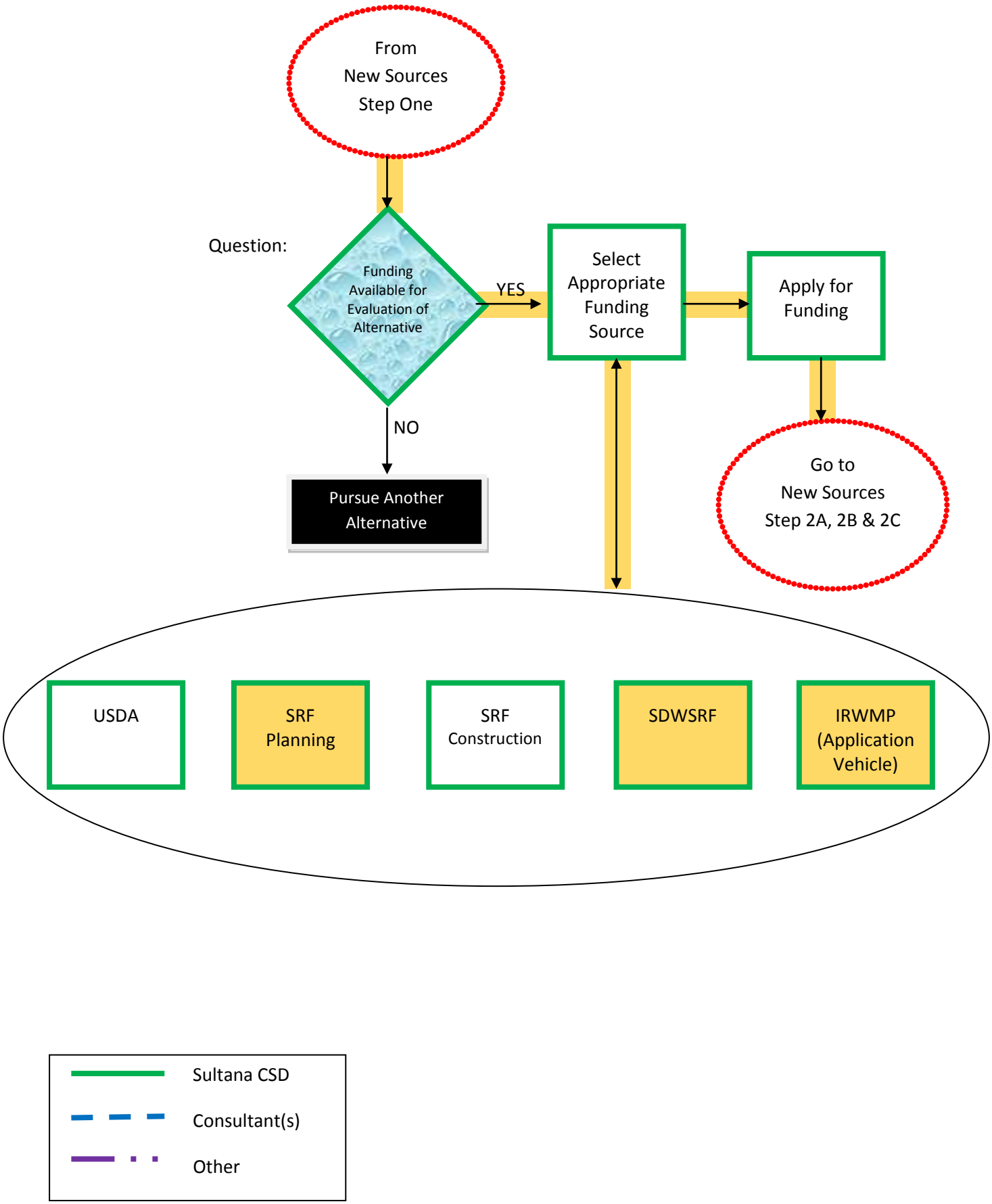
Monson

Population 120
Connections 25

High Nitrate (approx value)

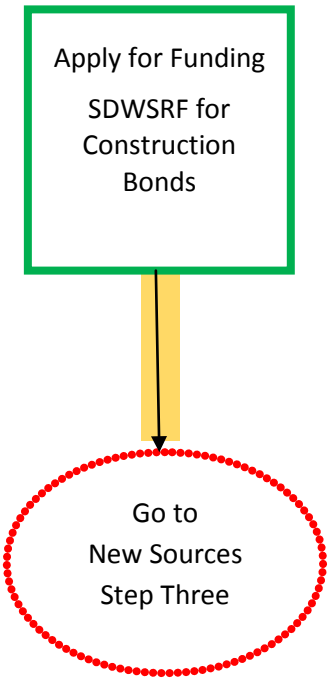
New Sources

Step Two



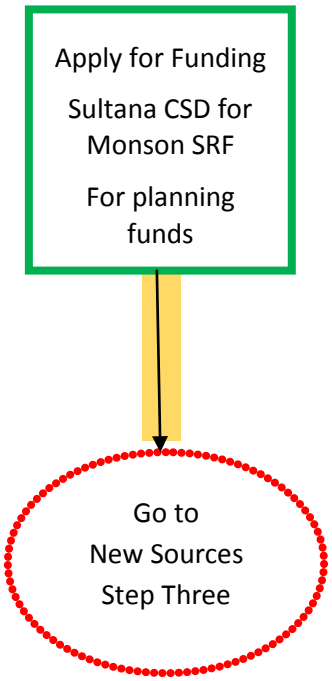
New Sources

Step Two A



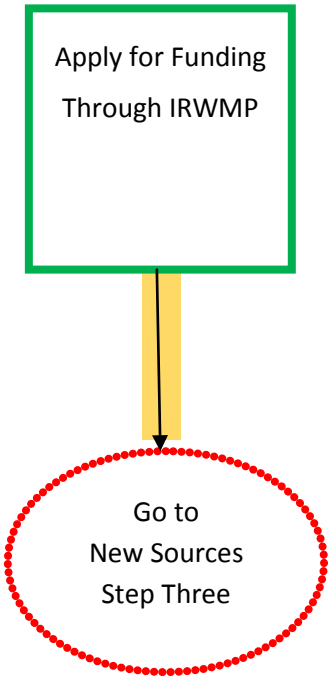
New Sources

Step Two B



New Sources

Step Two C



New Sources

Step Two

Sultana CSD SDWSRF Application for Construction Bonds February 2009

Prepared by:	Sultana CSD
Cost to Prepare:	
Source of Funds:	SDWSRF
Timeline of Preparation	
Response to Application:	

Sultana CSD Preliminary Engineering Report February 25, 2009

Prepared by:	Provost & Pritchard
Cost to Prepare:	$7,800
Cost to Repair:	$1.9 Million
Source of Funds:	SDWSRF
Timeline of Preparation:	2 months

Sultana CSD for Monson SRF Application for Planning Funds February 2010

Prepared by:	Sultana CSD
Cost to Prepare:	
Source of Funds:	SWDSRF
Funding Request:	$495,000
Timeline of Preparation:	1 year (based on Resolution date)
Response to Application:	

IRWM

Prepared by:	Self Help Enterprises
Cost to Prepare:	
Source of Funds:	Prop 84 IRWM
Timeline of Preparation	
Response to Application:	

Consideration to Apply for SDWSRF Funds with City of Dinuba and El Monte MHP

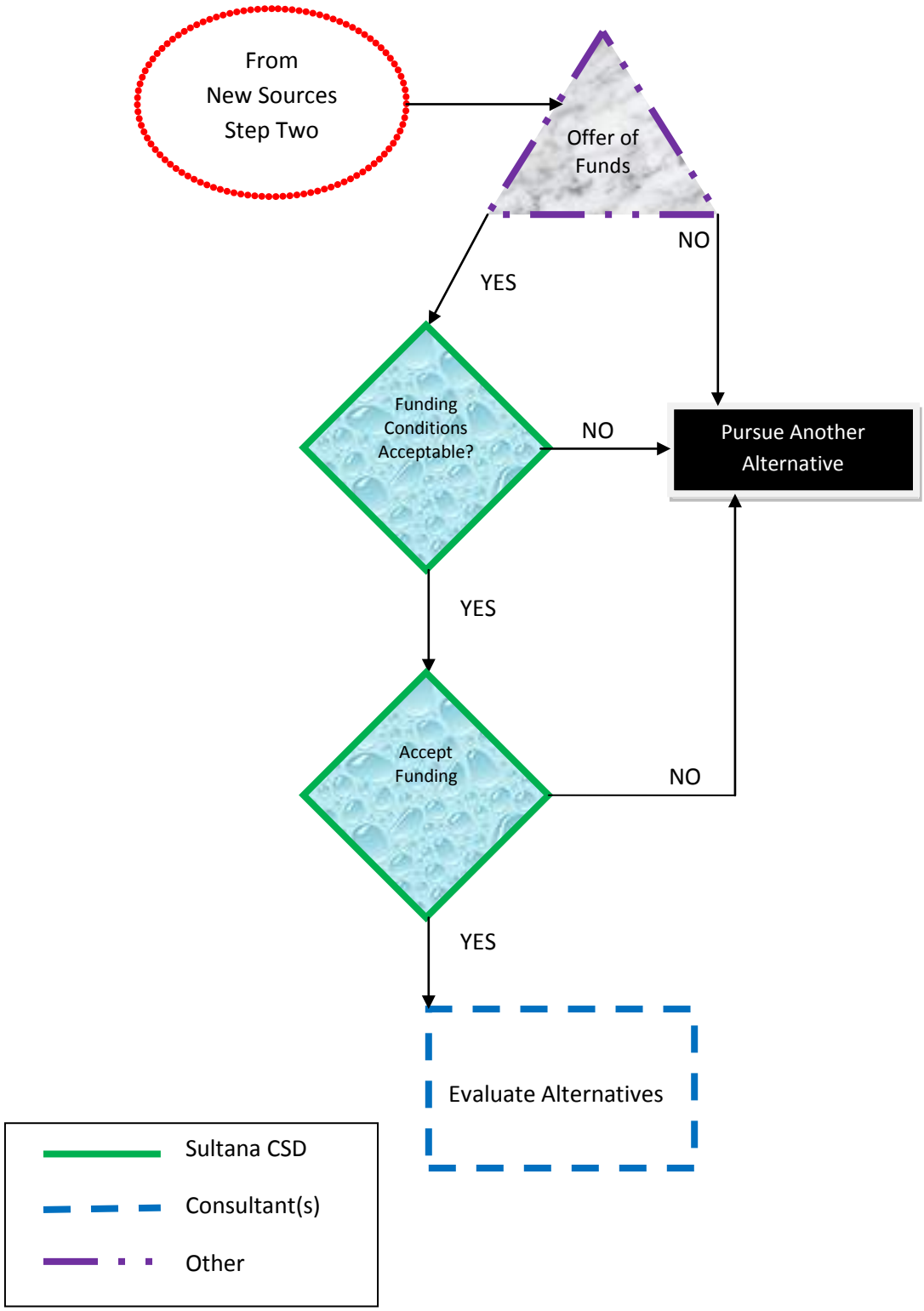
Potential to address Sultana and El Monte MHP supply / Quality items

City of Dinuba to obtain well for capacity to serve

Consideration of Monson

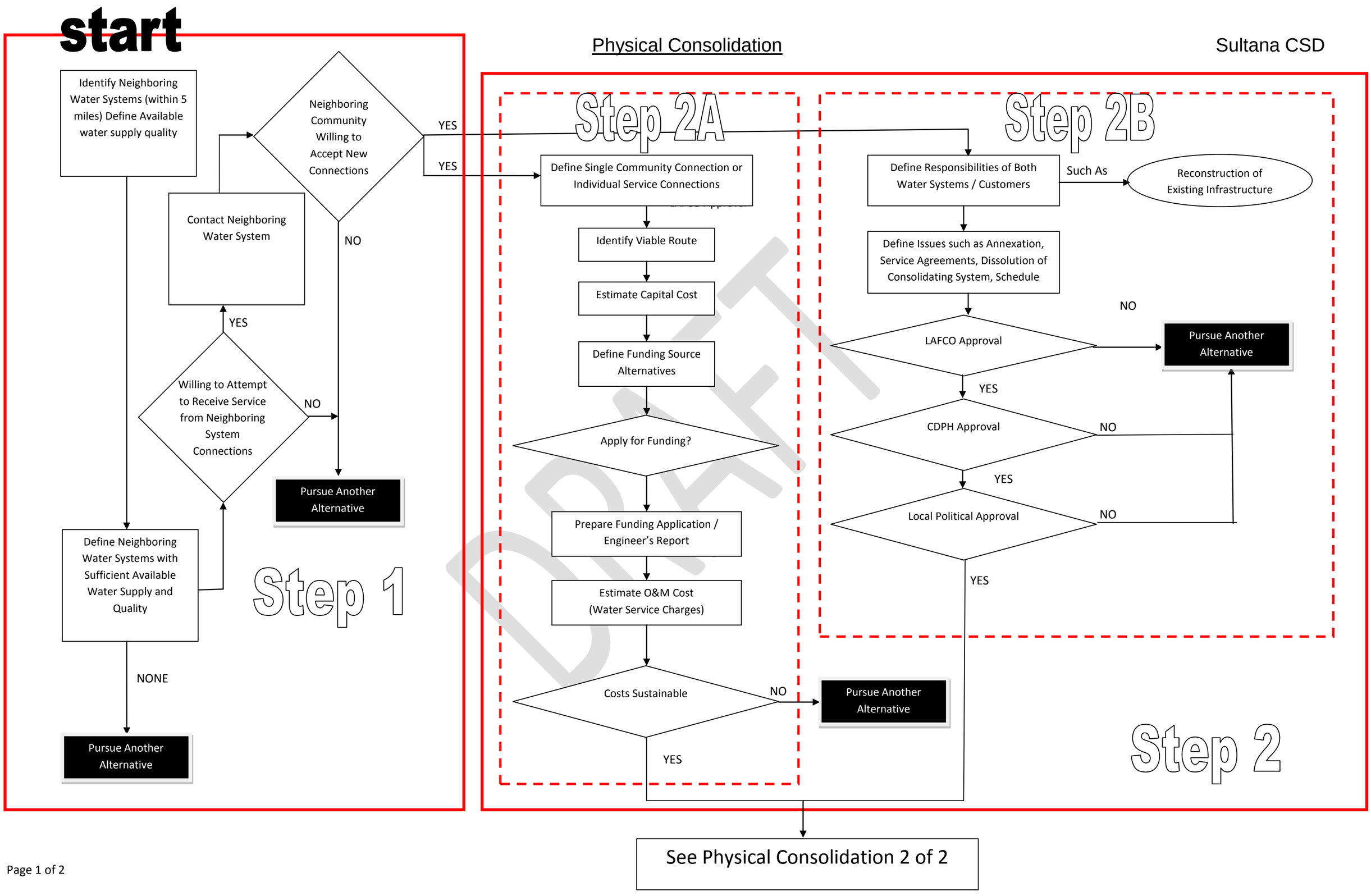
New Sources

Step Three

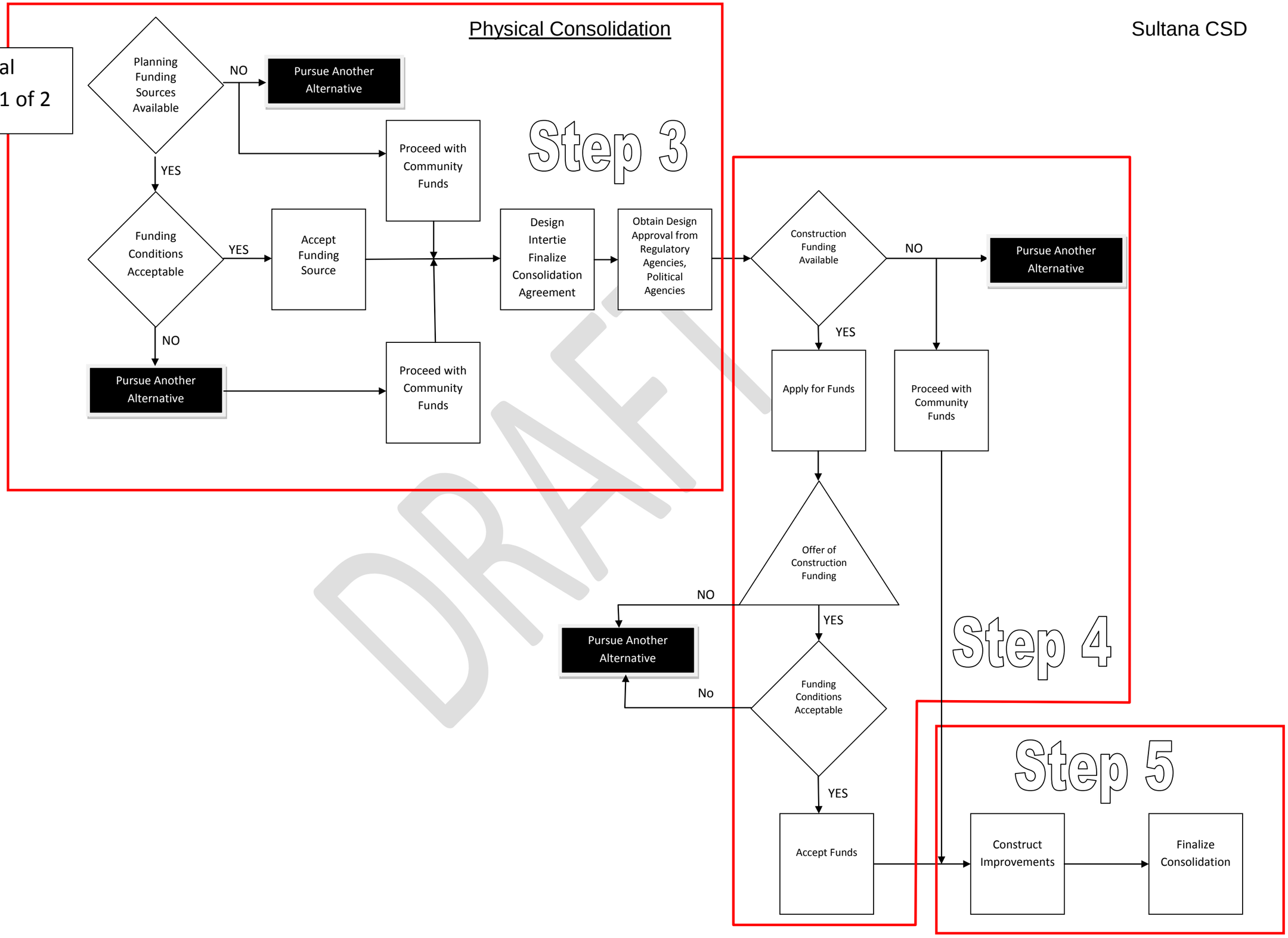


Physical Consolidation

Sultana CSD



See Physical Consolidation 1 of 2



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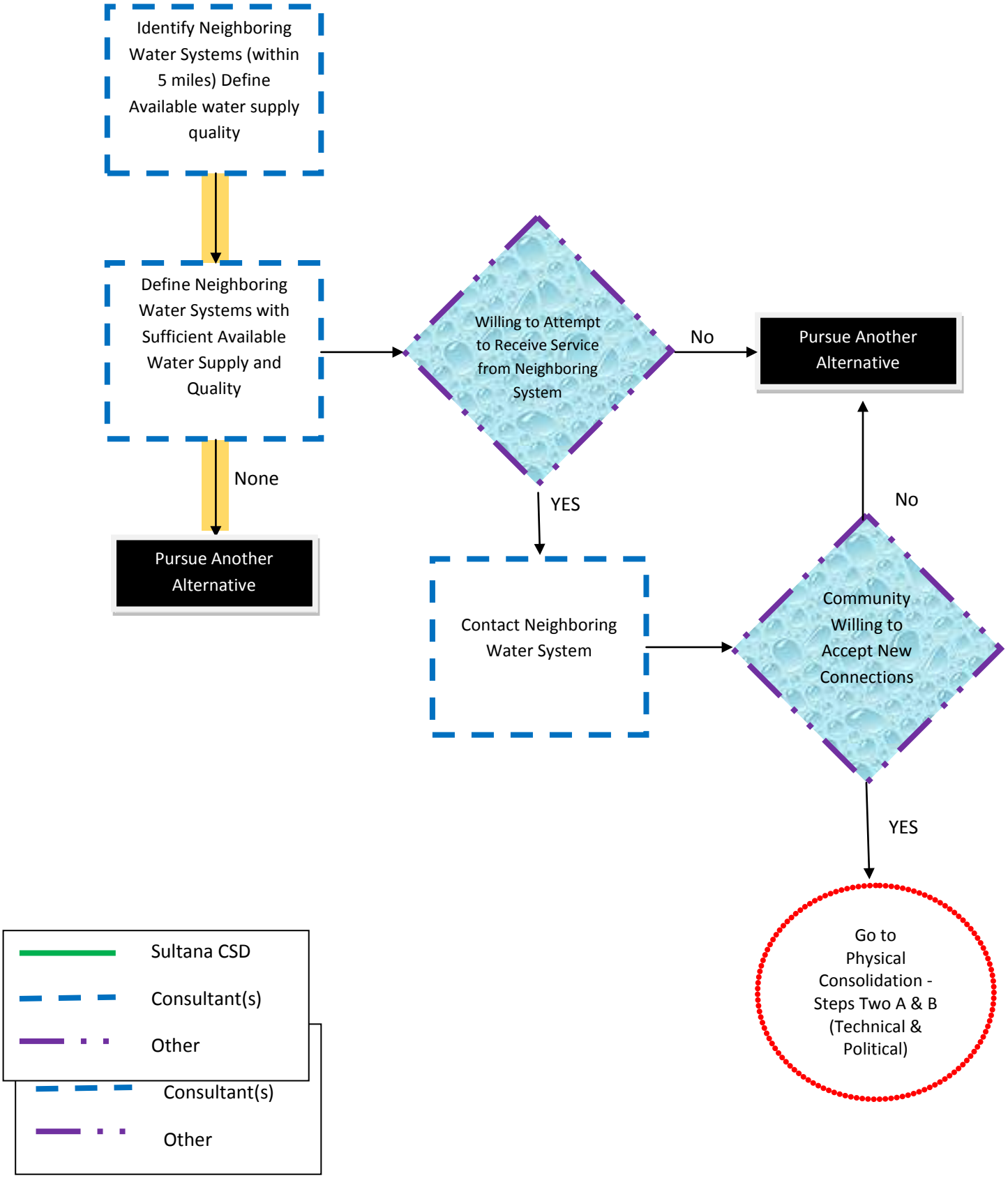
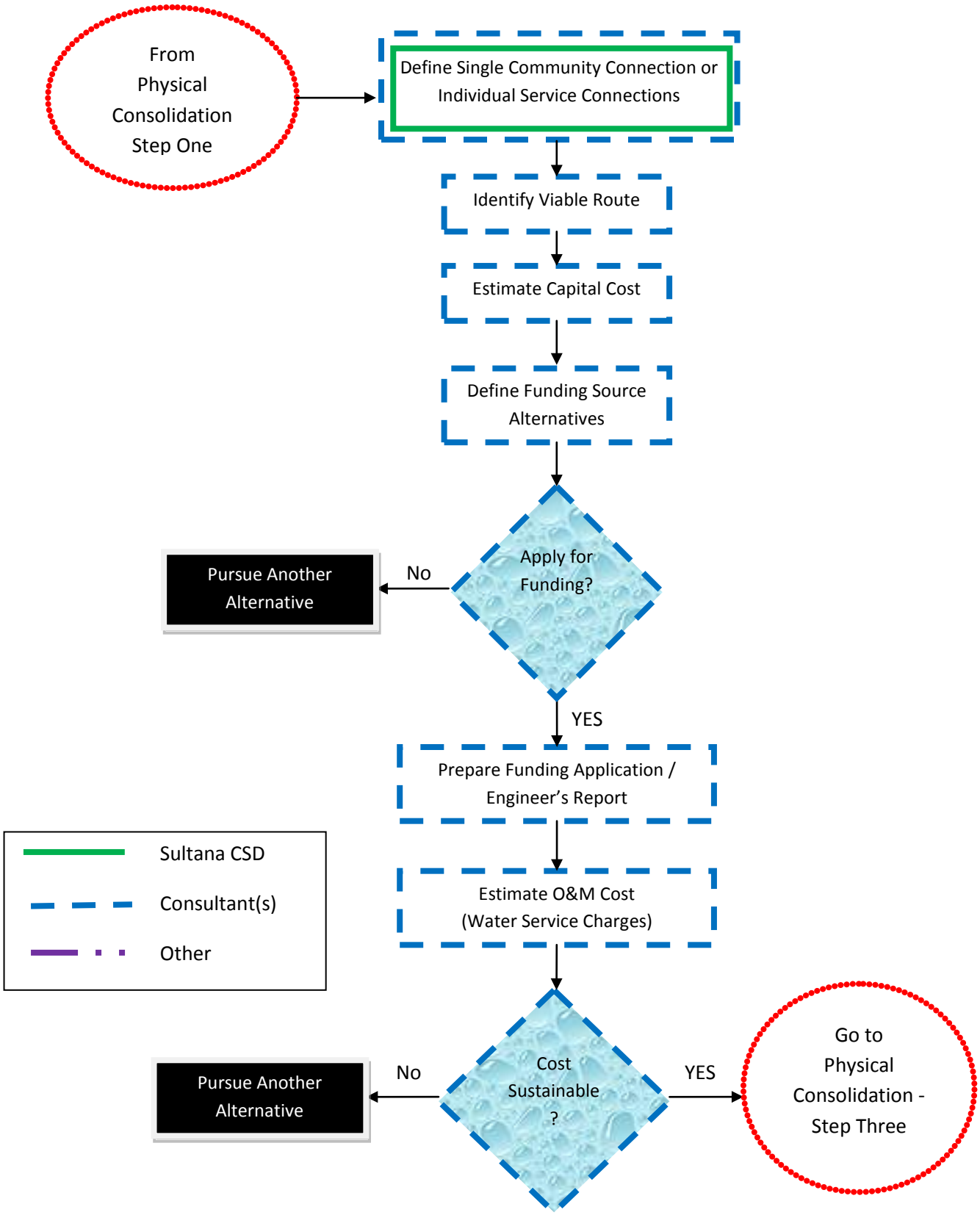
Sultana CSD
Physical Consolidation
Step One

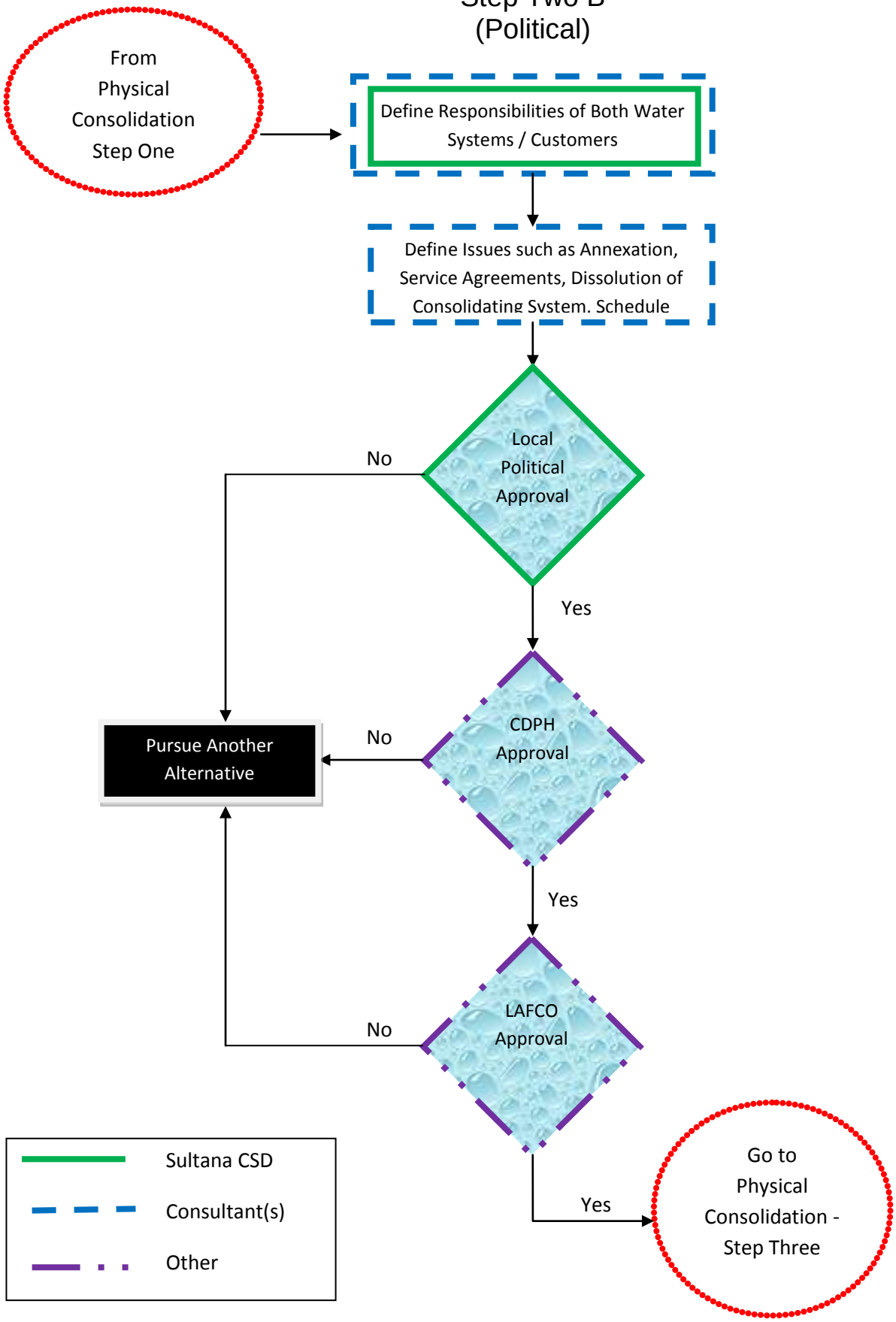


Sultana CSD
Physical Consolidation
Step Two A
(Technical)

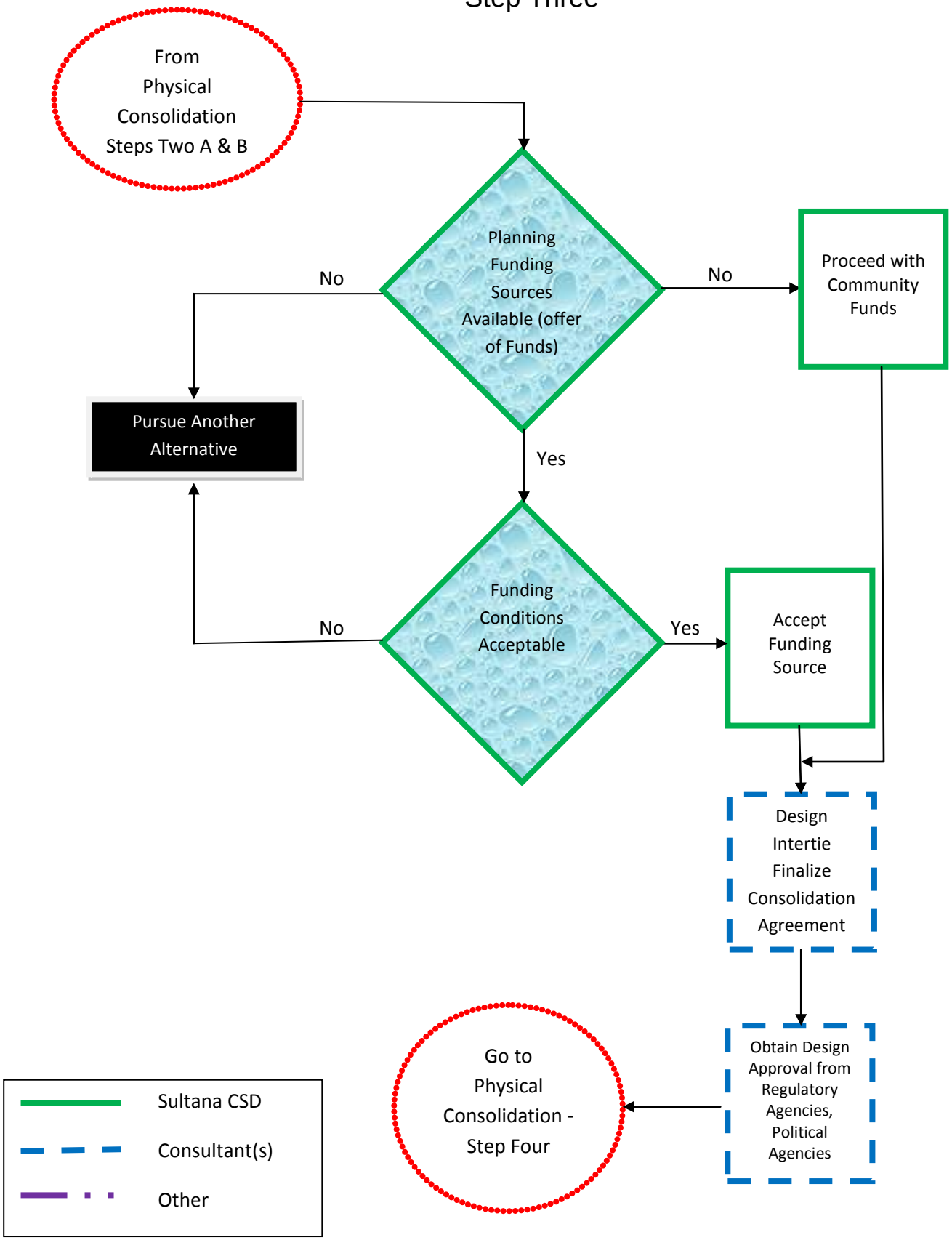


Sultana CSD
Physical Consolidation

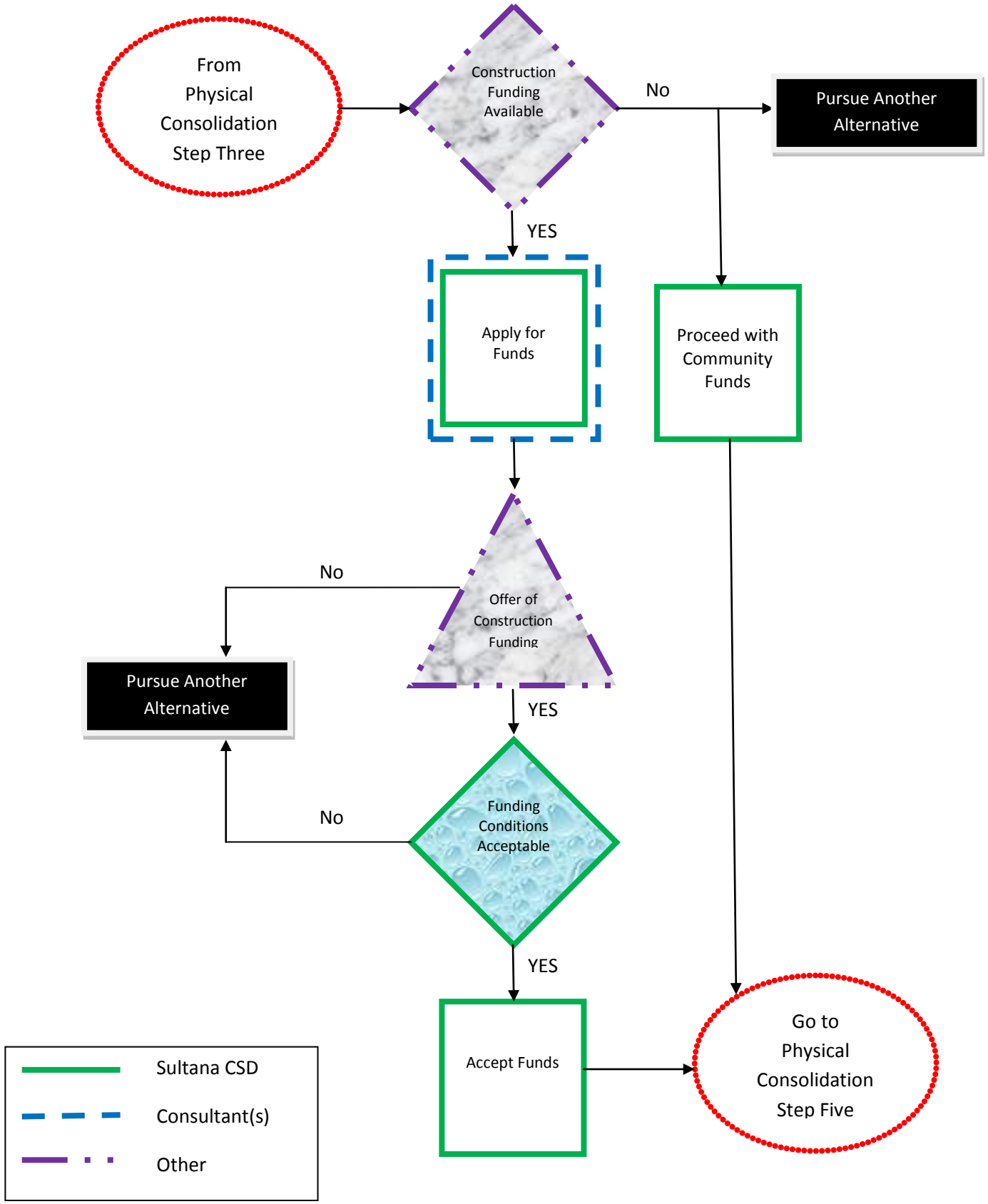
Step Two B
(Political)



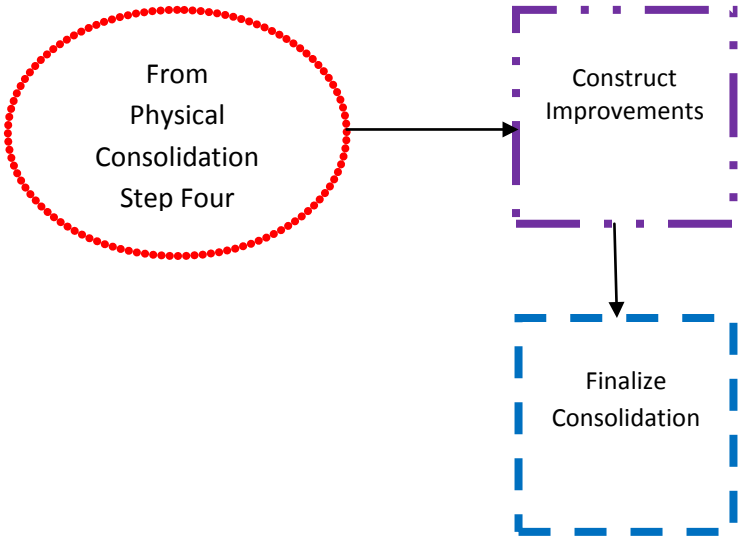
Sultana CSD
Physical Consolidation
Step Three

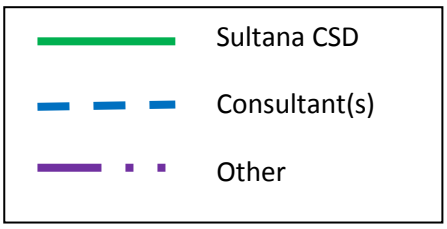


Sultana CSD
Physical Consolidation
Step Four



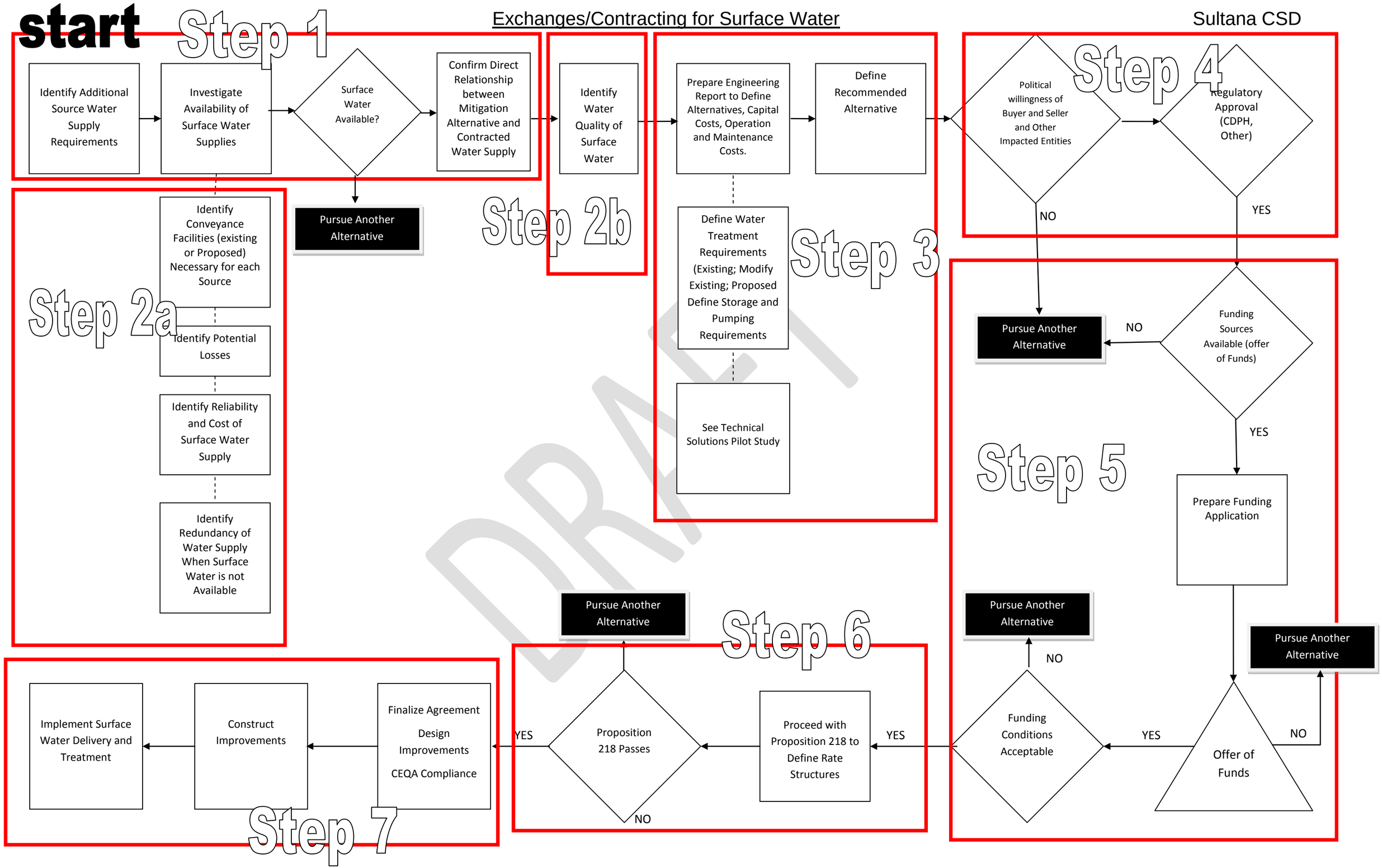
Sultana CSD
Physical Consolidation
Step Five





Exchanges/Contracting for Surface Water

Sultana CSD



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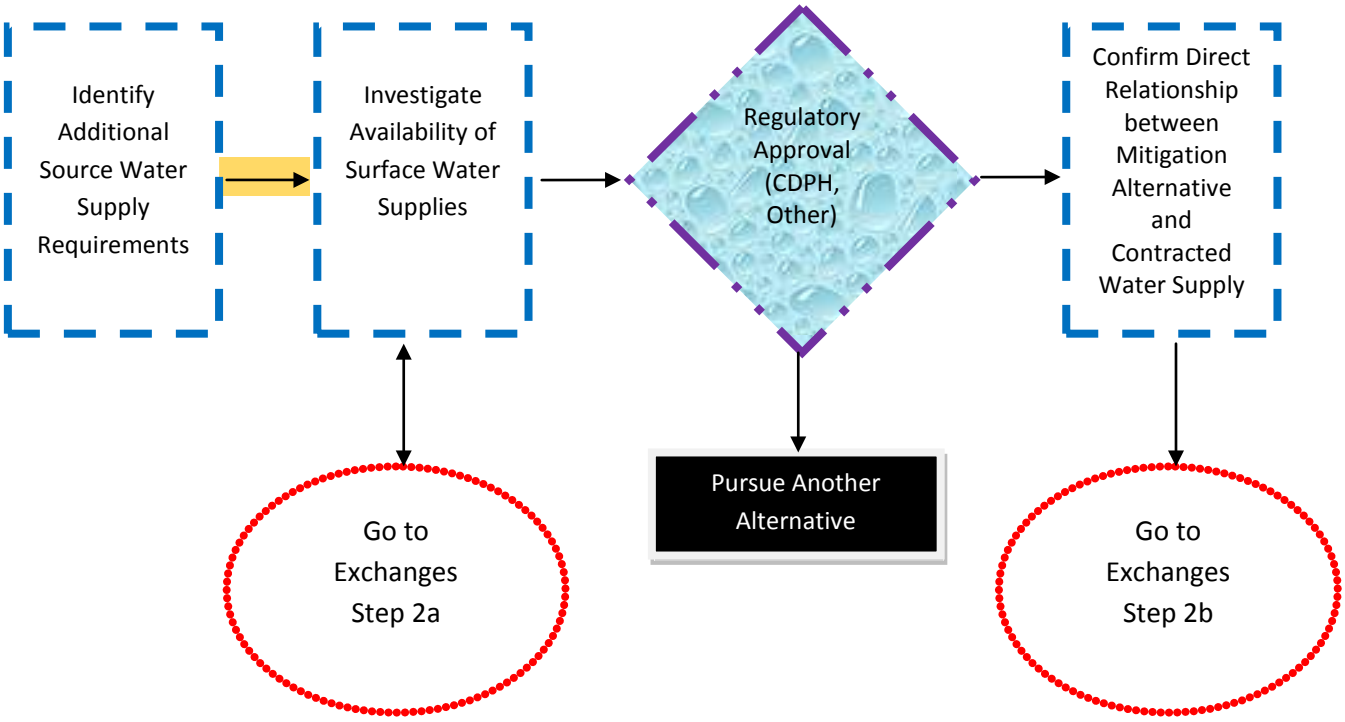
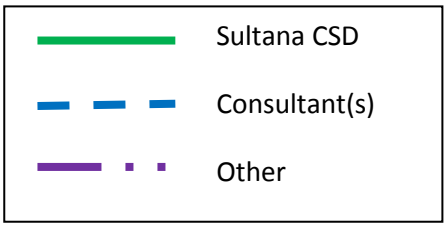
Sultana CSD

Exchanges/Contracting for Surface Water

Step One

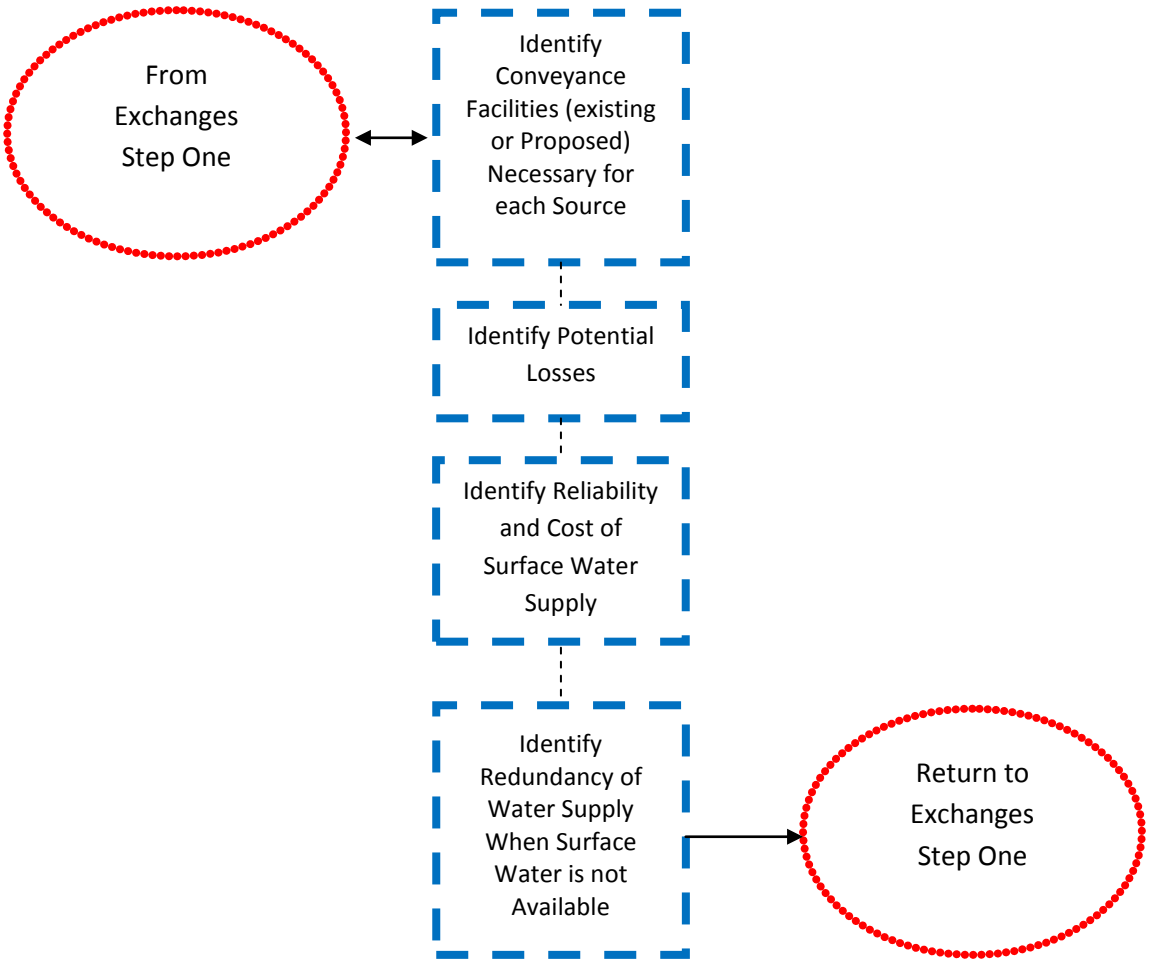


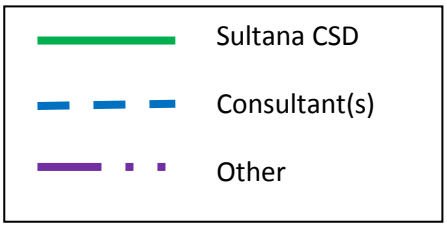


Sultana CSD

Exchanges/Contracting for Surface Water

Step Two a

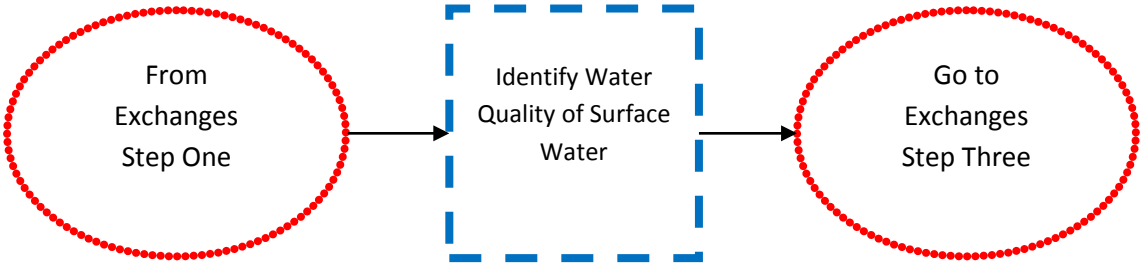


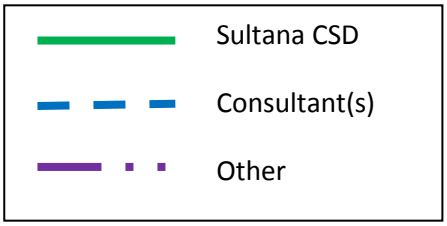


Sultana CSD

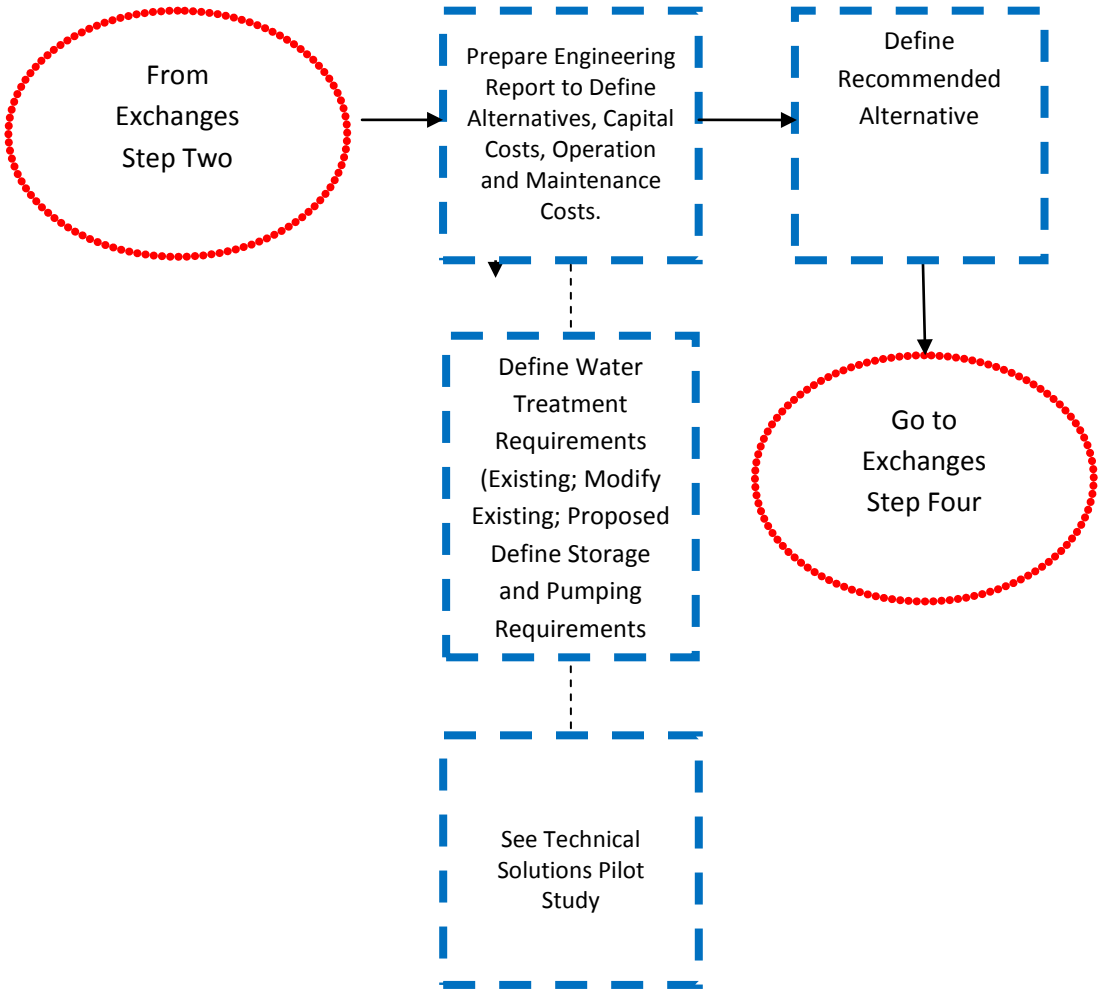
Exchanges/Contracting for Surface Water

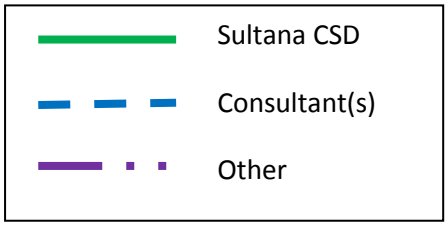
Step Two b



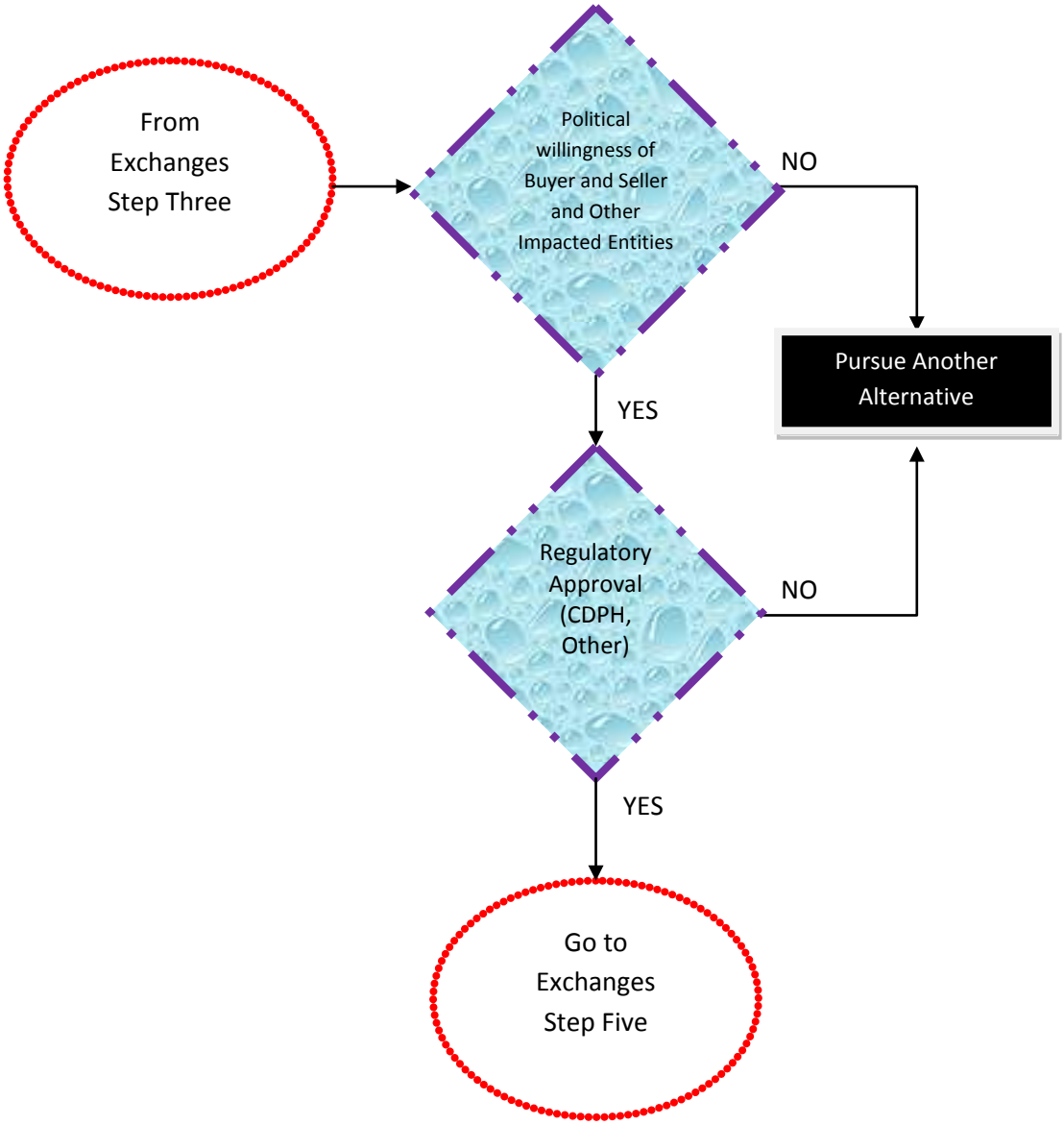


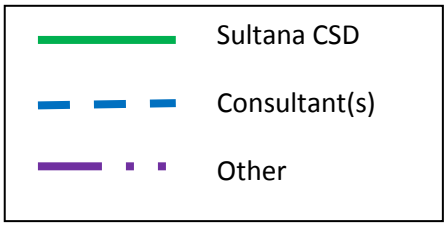
Sultana CSD
Exchanges/Contracting for Surface Water
Step Three





Sultana CSD
Exchanges/Contracting for Surface Water
Step Four

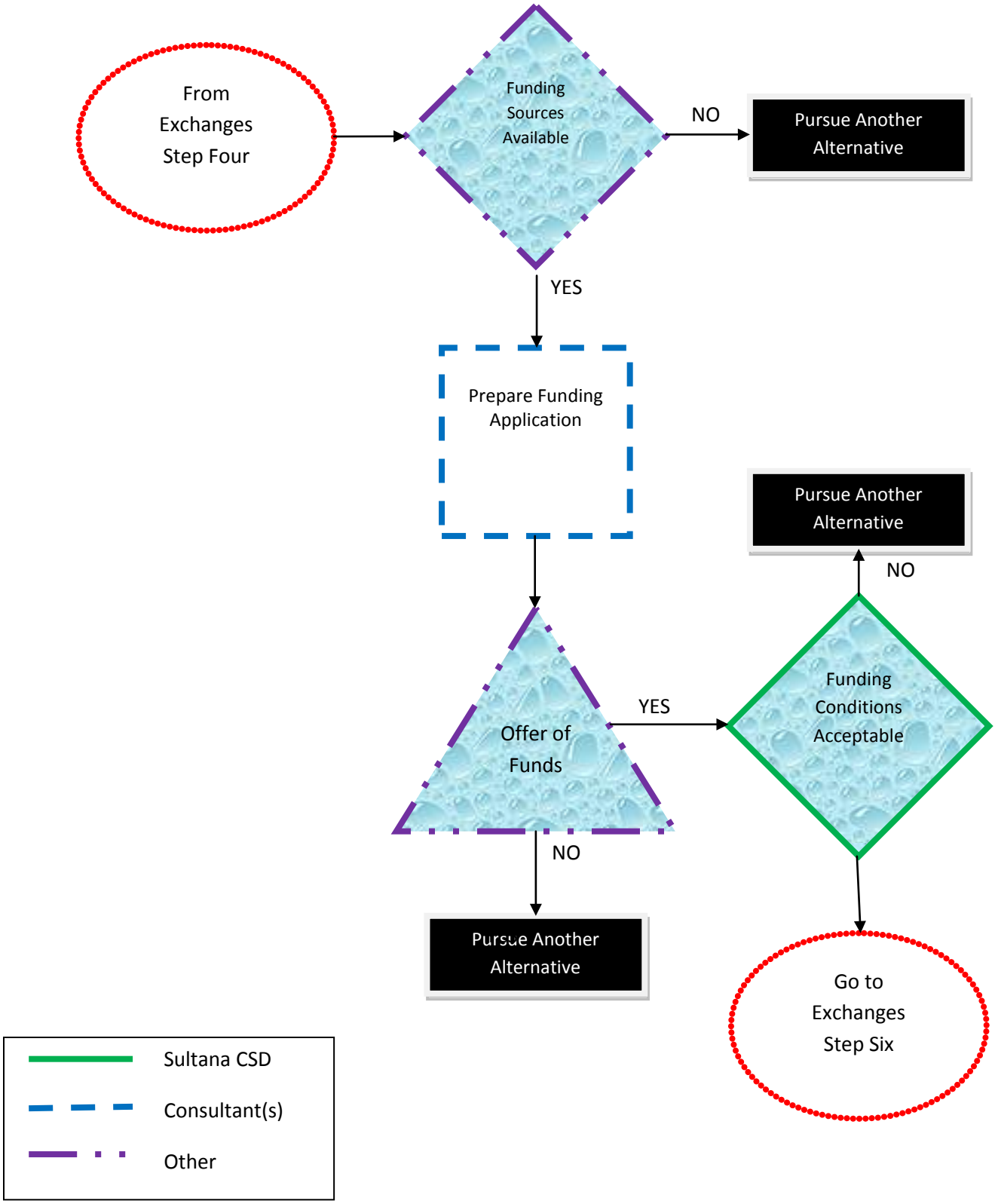




Sultana CSD

Exchanges/Contracting for Surface Water

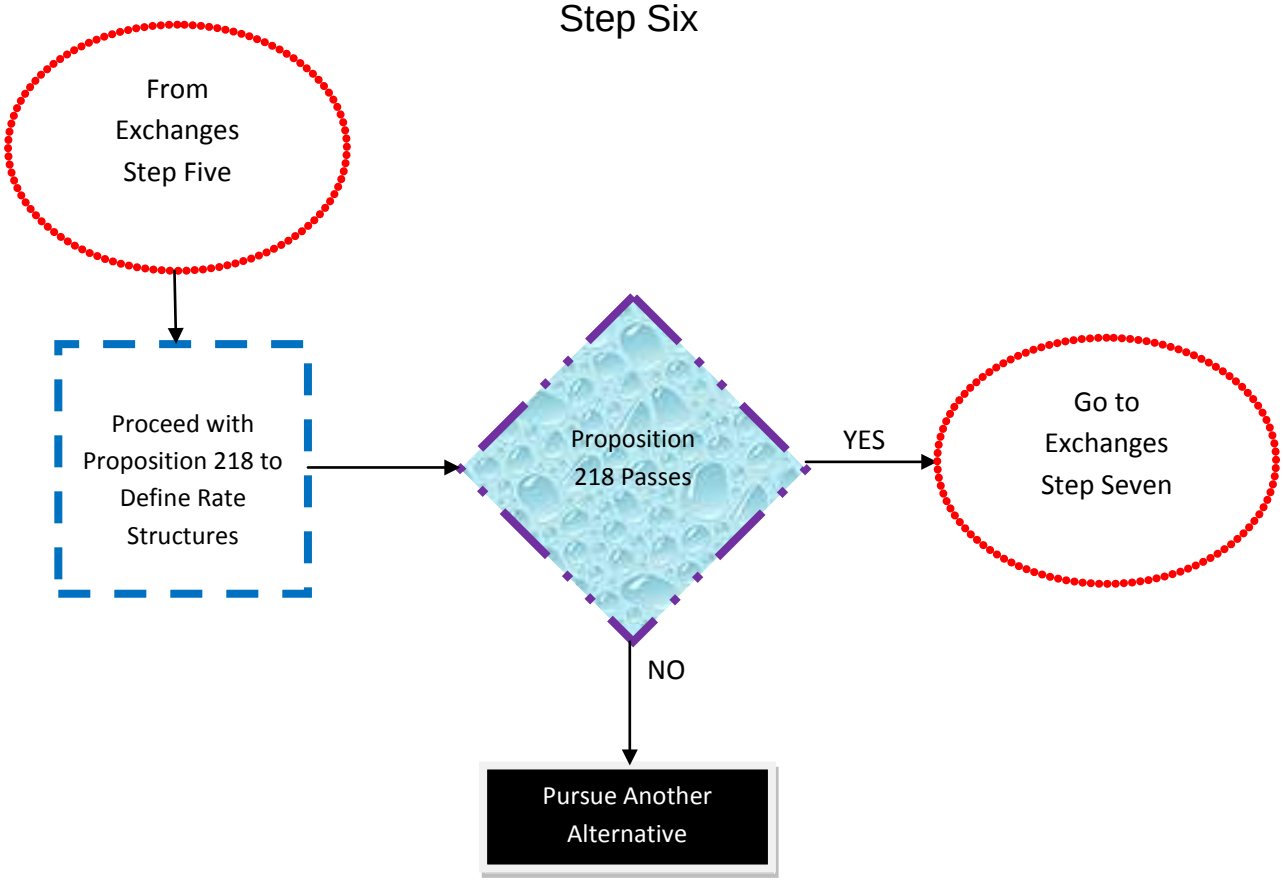
Step Five

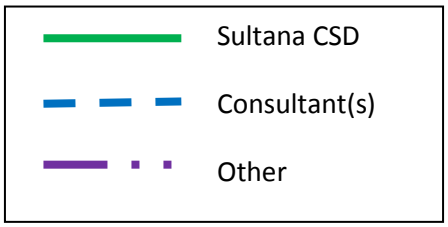


Sultana CSD

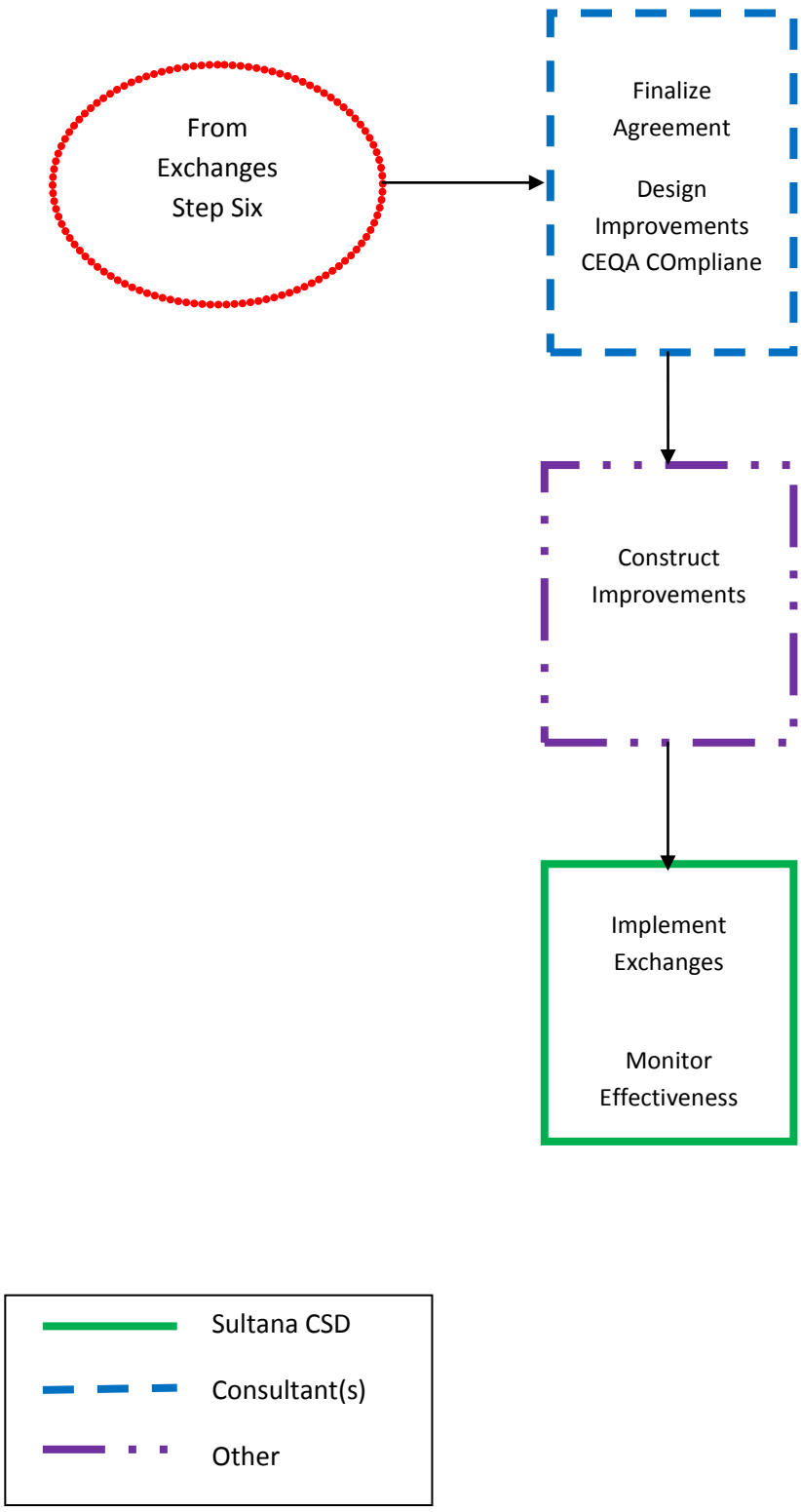
Exchanges/Contracting for Surface Water

Step Six



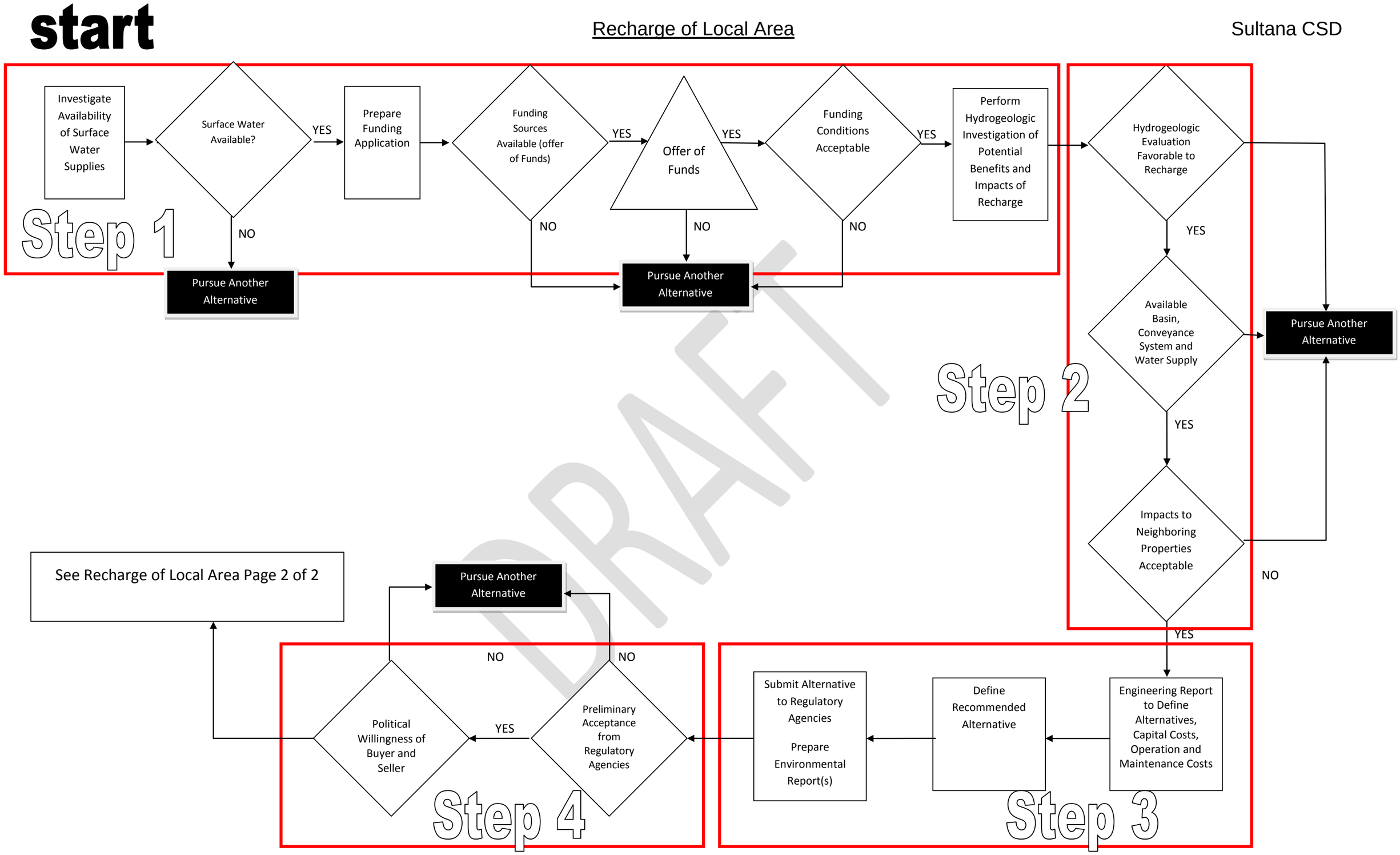


Sultana CSD
Exchanges/Contracting for Surface Water
Step Seven



Recharge of Local Area

Sultana CSD



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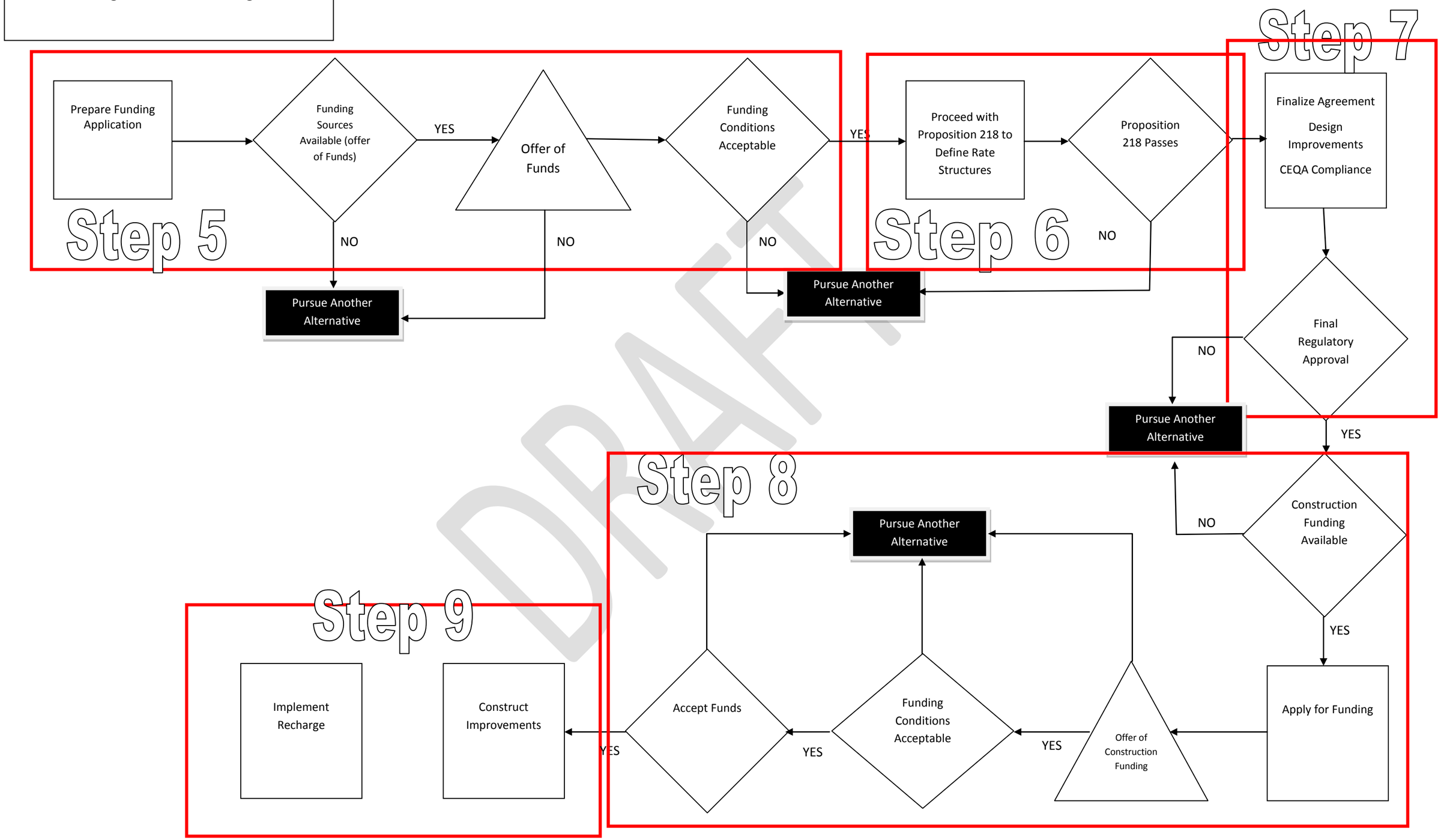
Recharge of Local Area

Sultana CSD

See Recharge of Local Area Page 1 of 2



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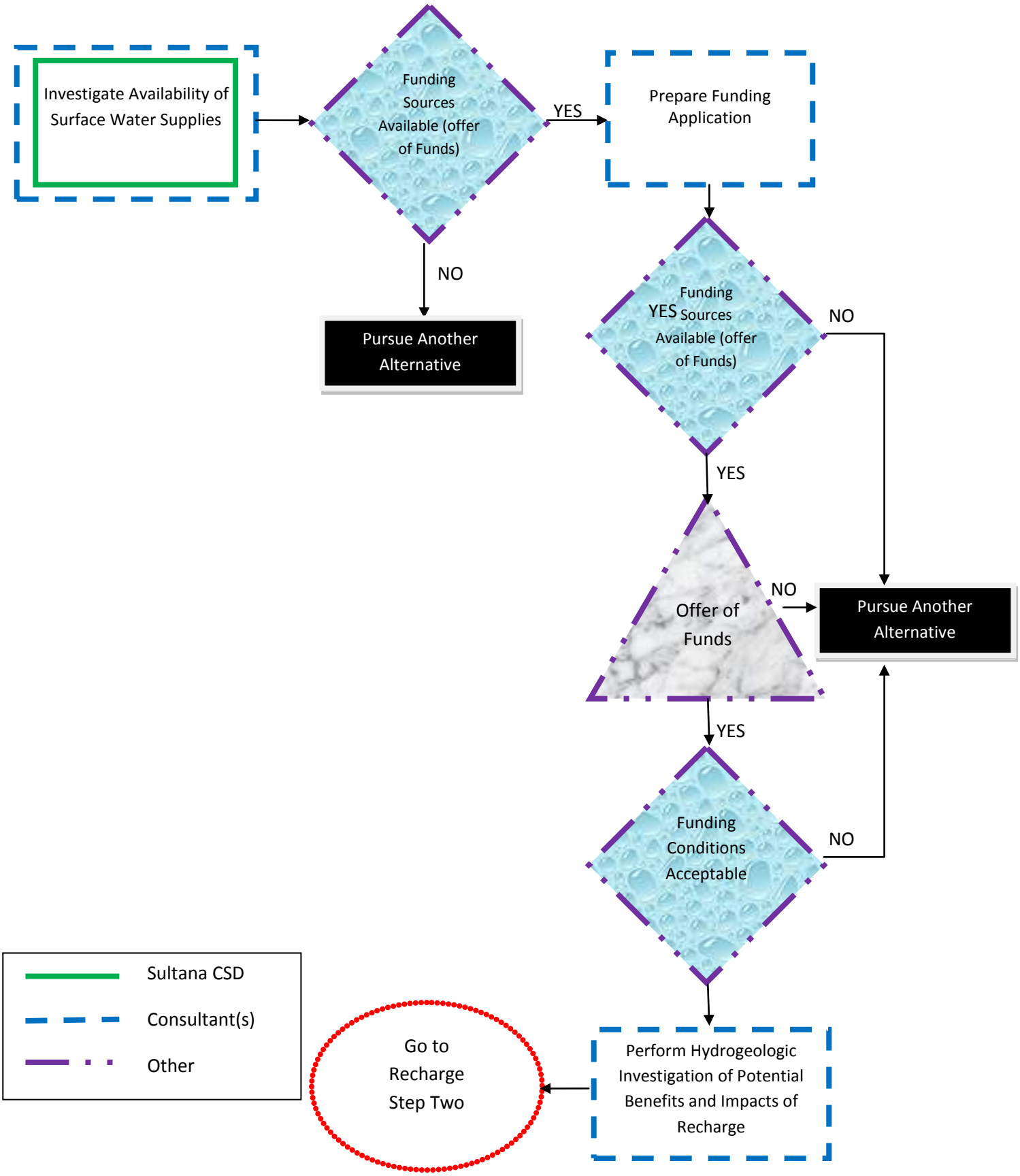
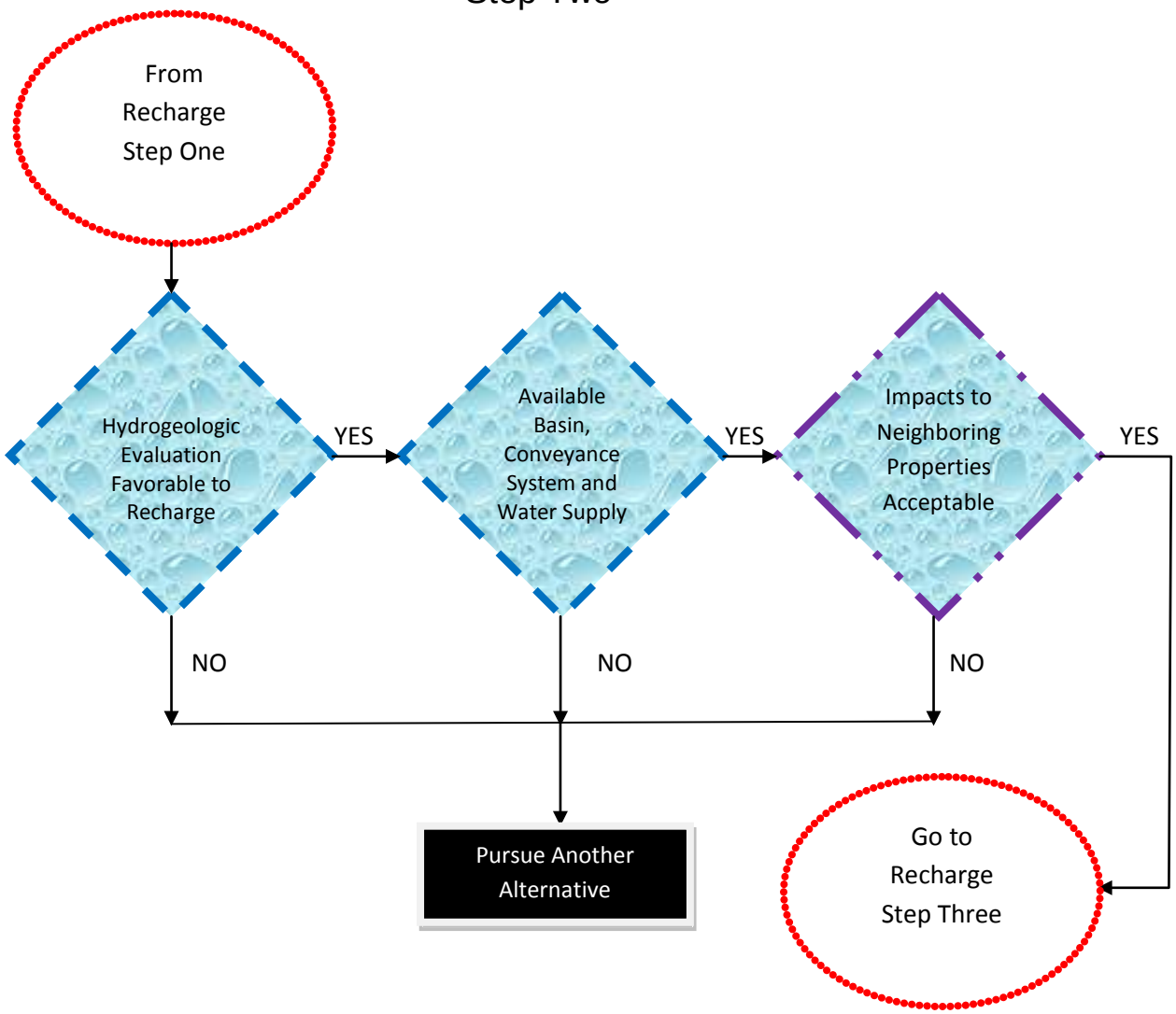
Sultana CSD
Recharge of Local Area
Step One

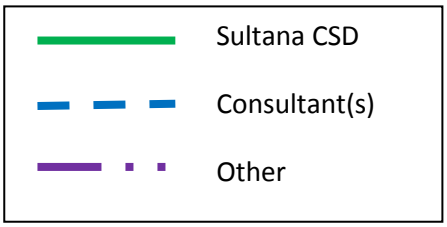


Sultana CSD

Recharge of Local Area

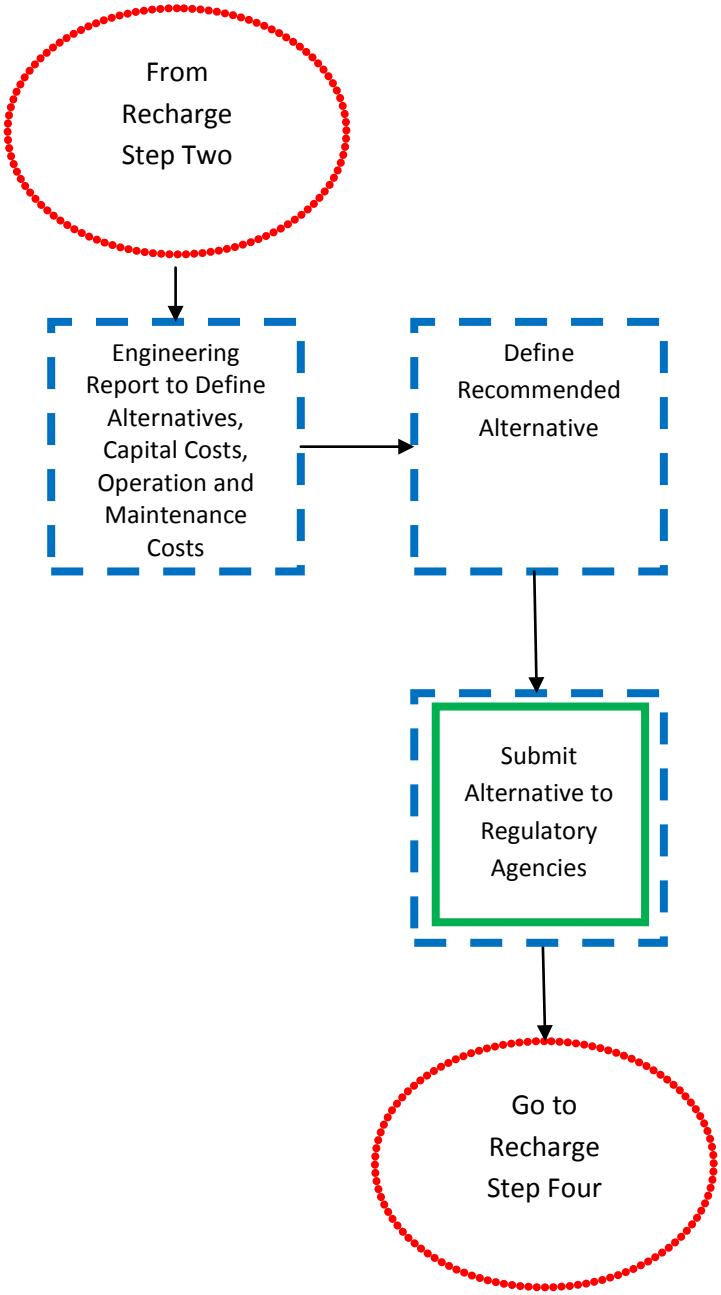
Step Two

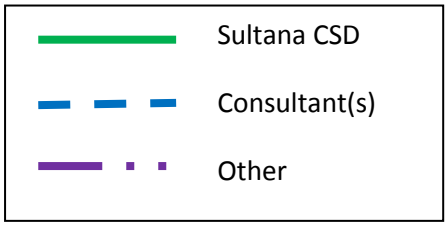




Sultana CSD
Recharge of Local Area

Step Three

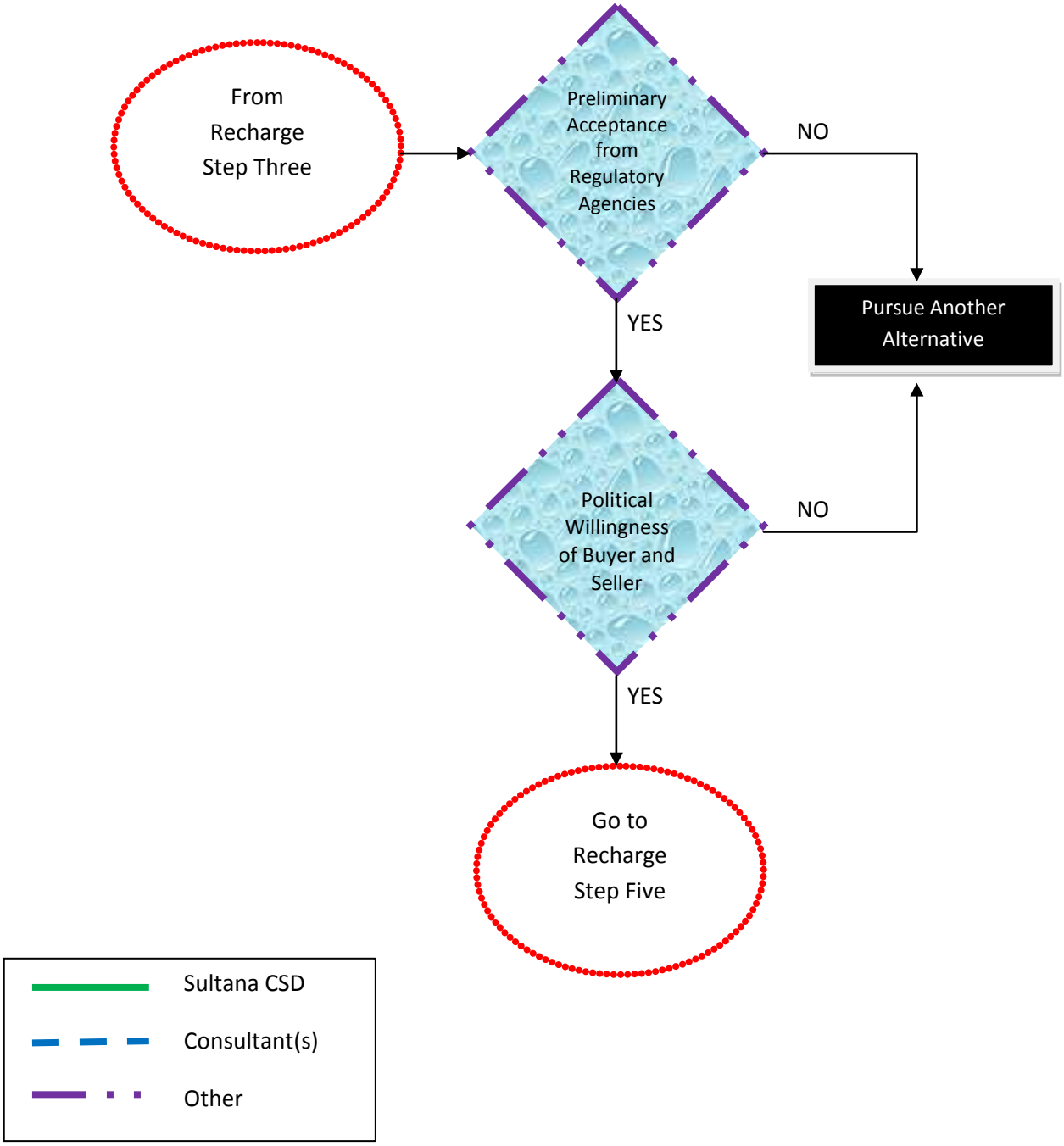




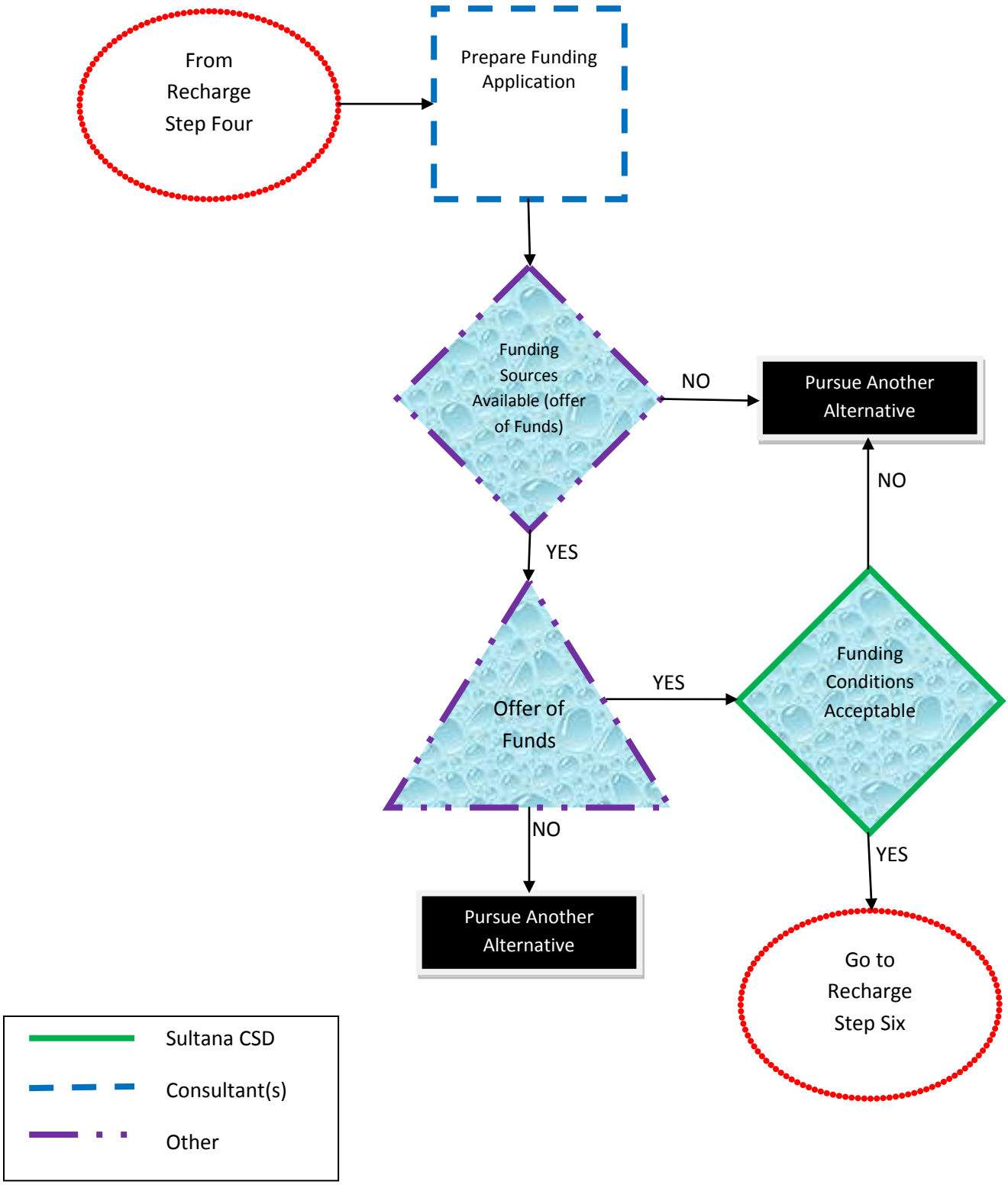
Sultana CSD

Recharge of Local Area

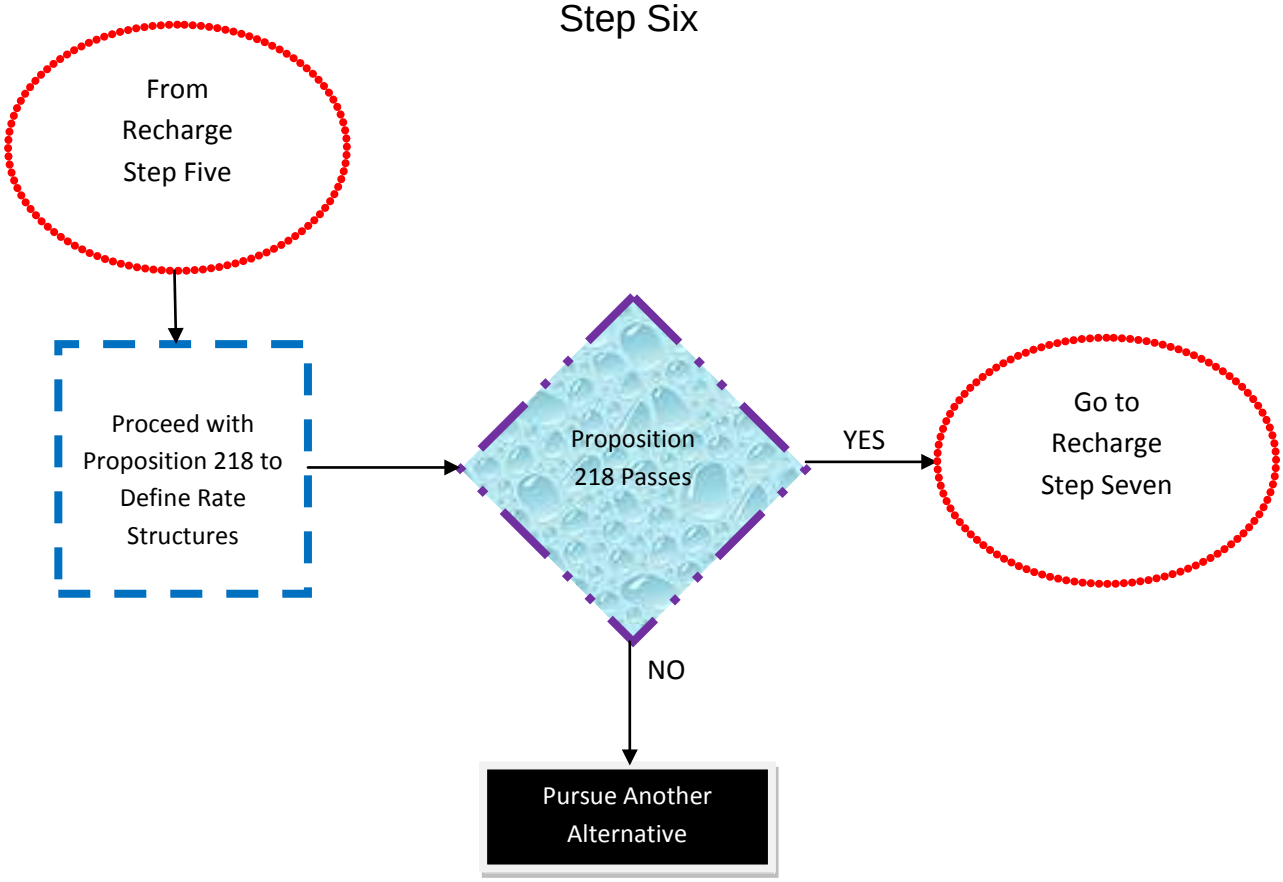
Step Four

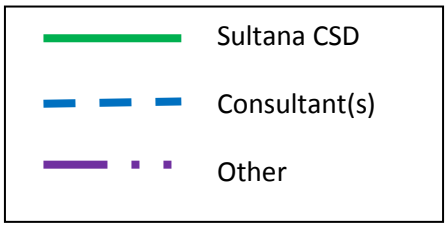


Sultana CSD
Recharge of Local Area
Step Five

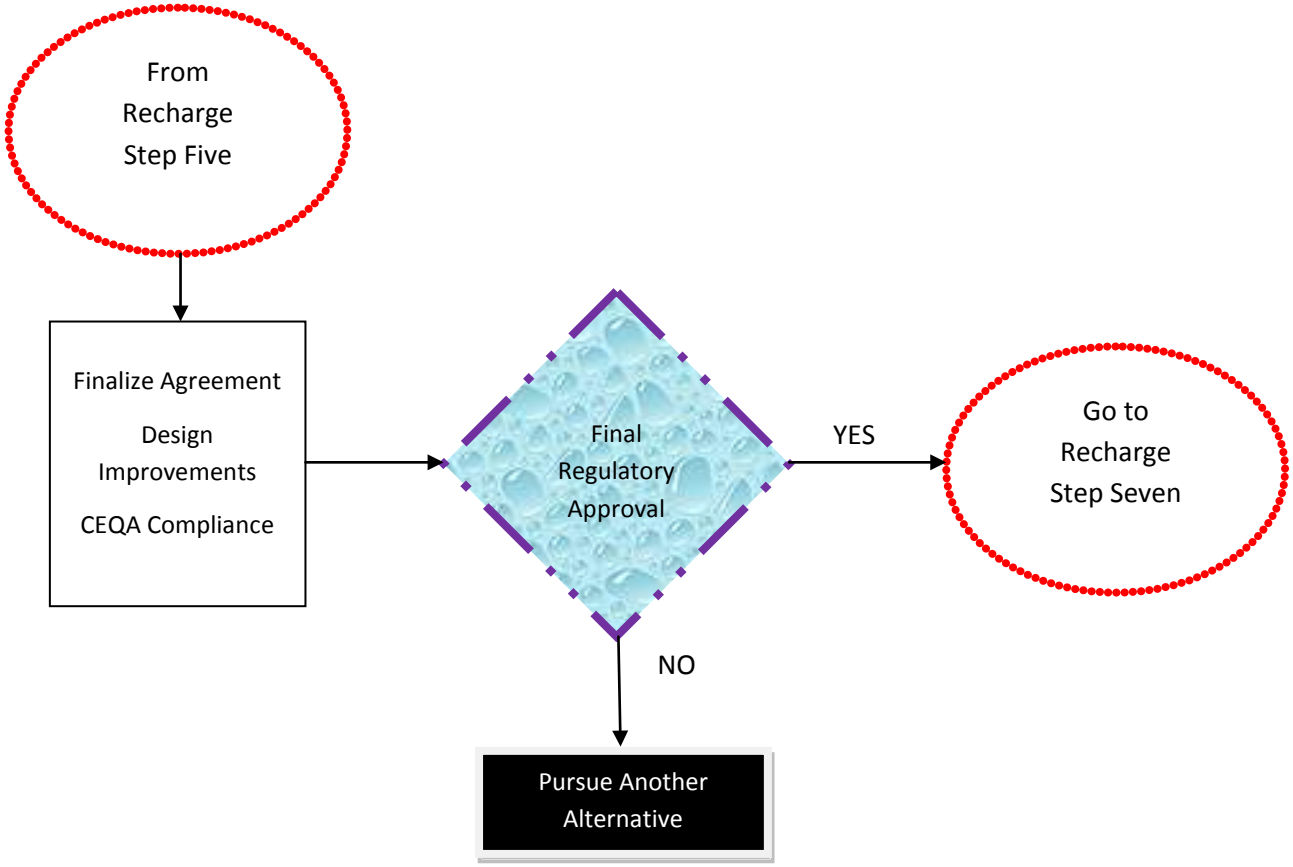


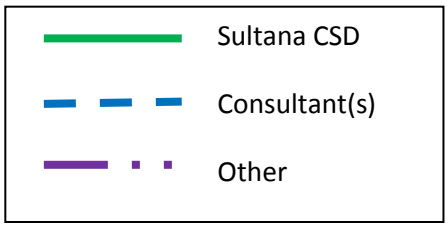
Sultana CSD
Recharge of Local Area
Step Six



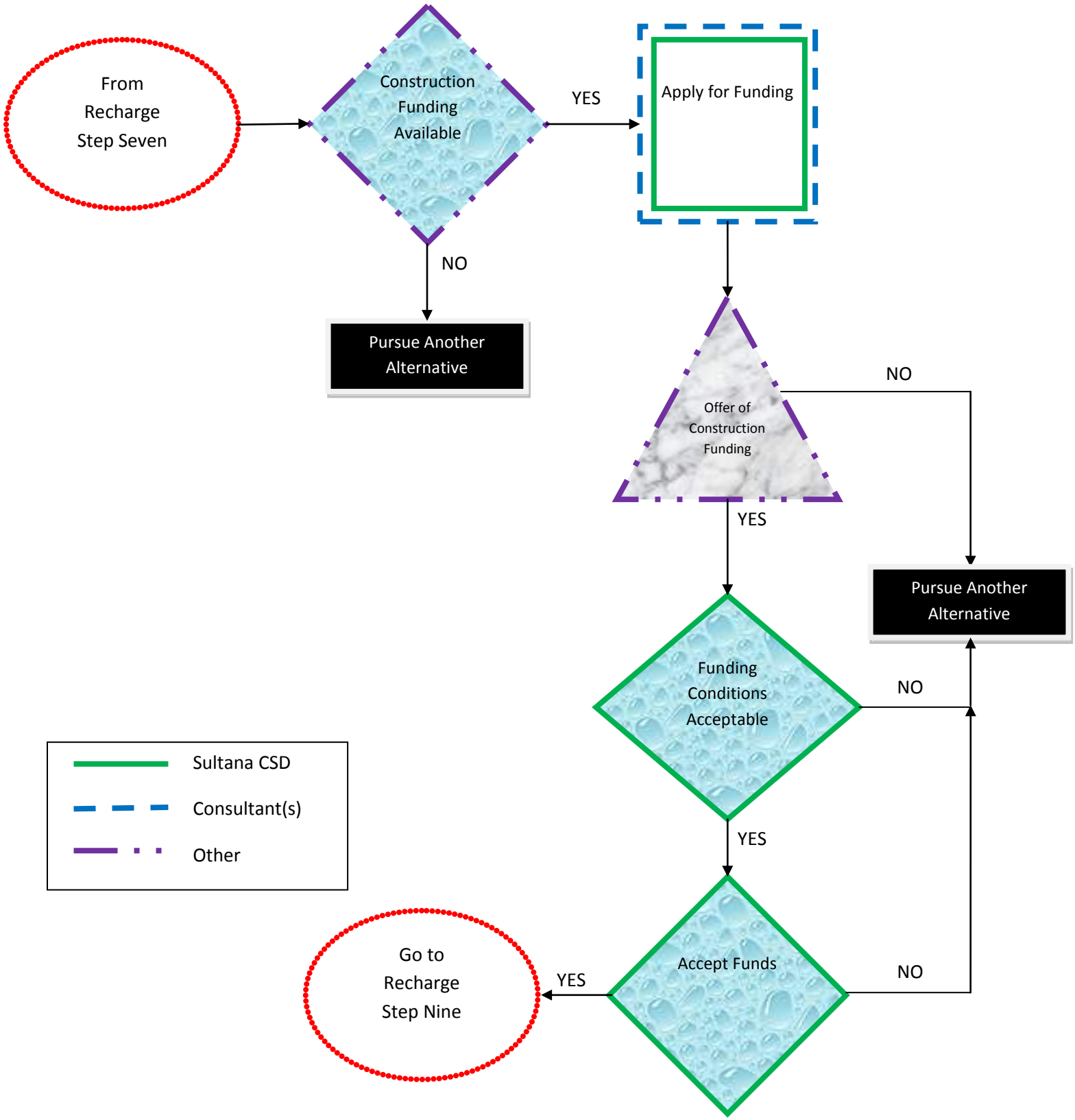


Sultana CSD
Recharge of Local Area
Step Seven

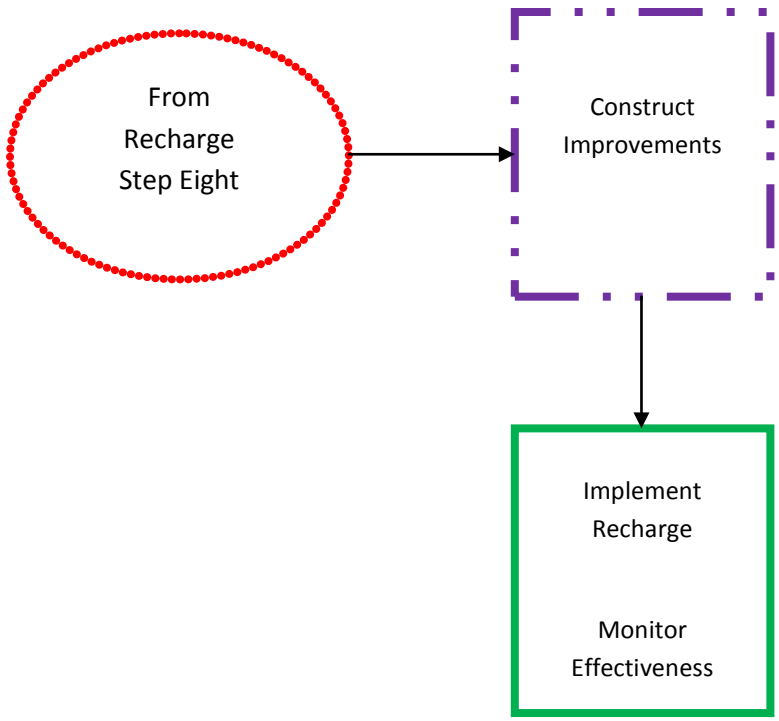


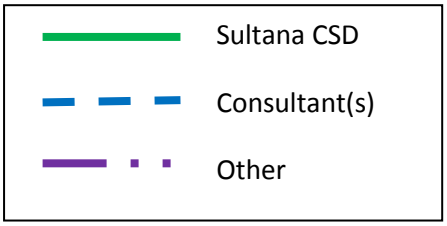


Sultana CSD
Recharge of Local Area
Step Eight



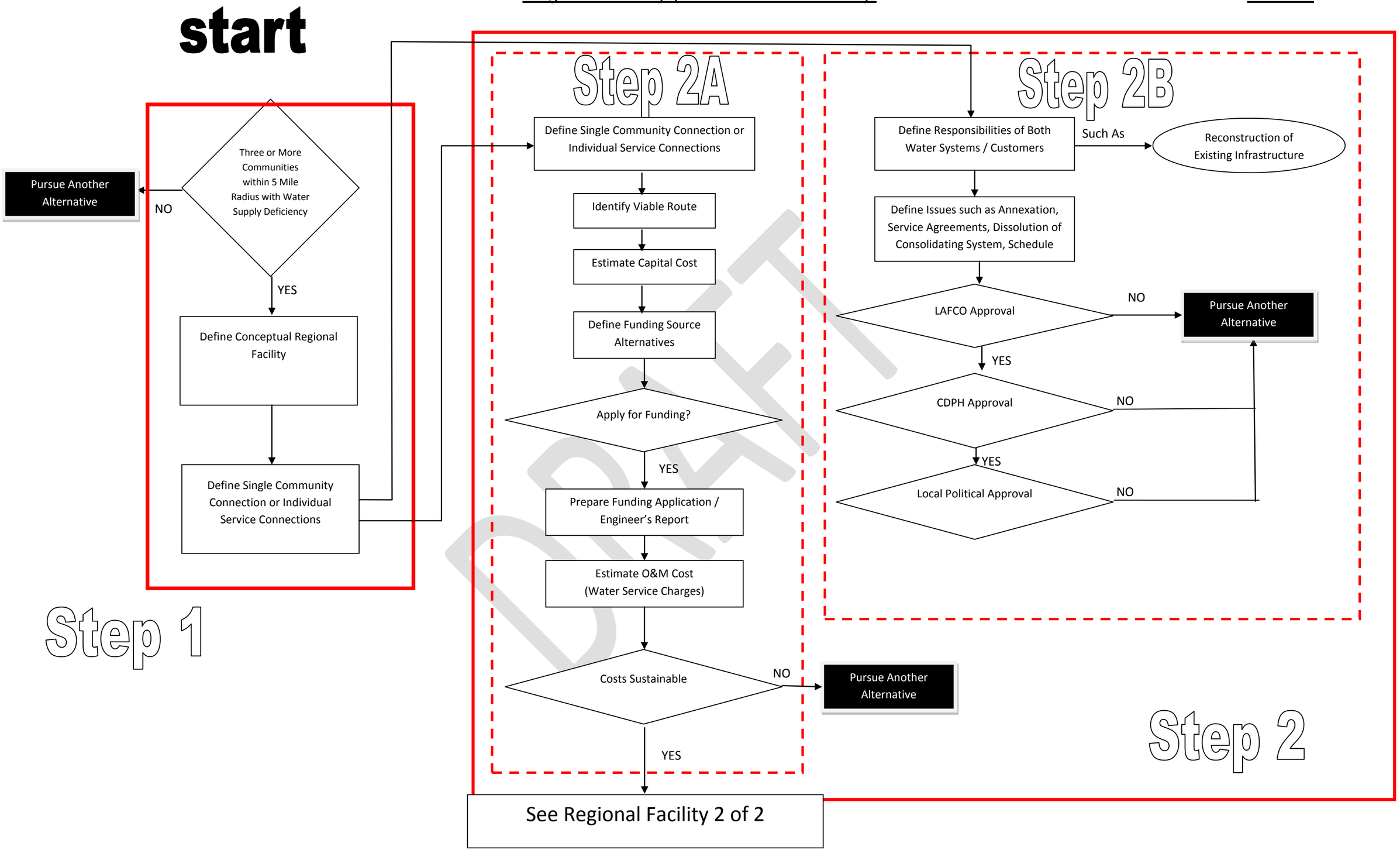
Sultana CSD
Recharge of Local Area

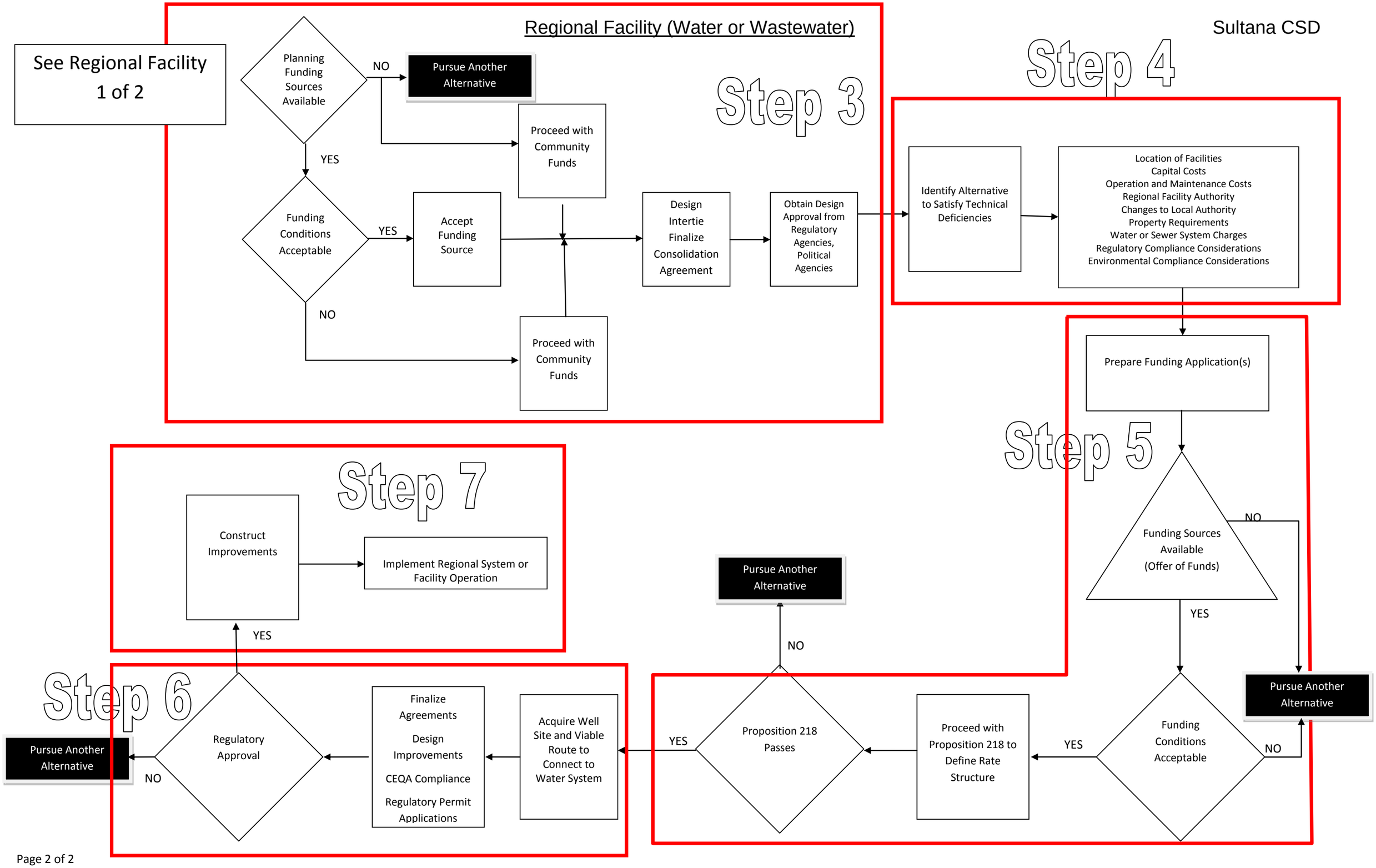




Regional Facility (Water or Wastewater)

Sultana CSD

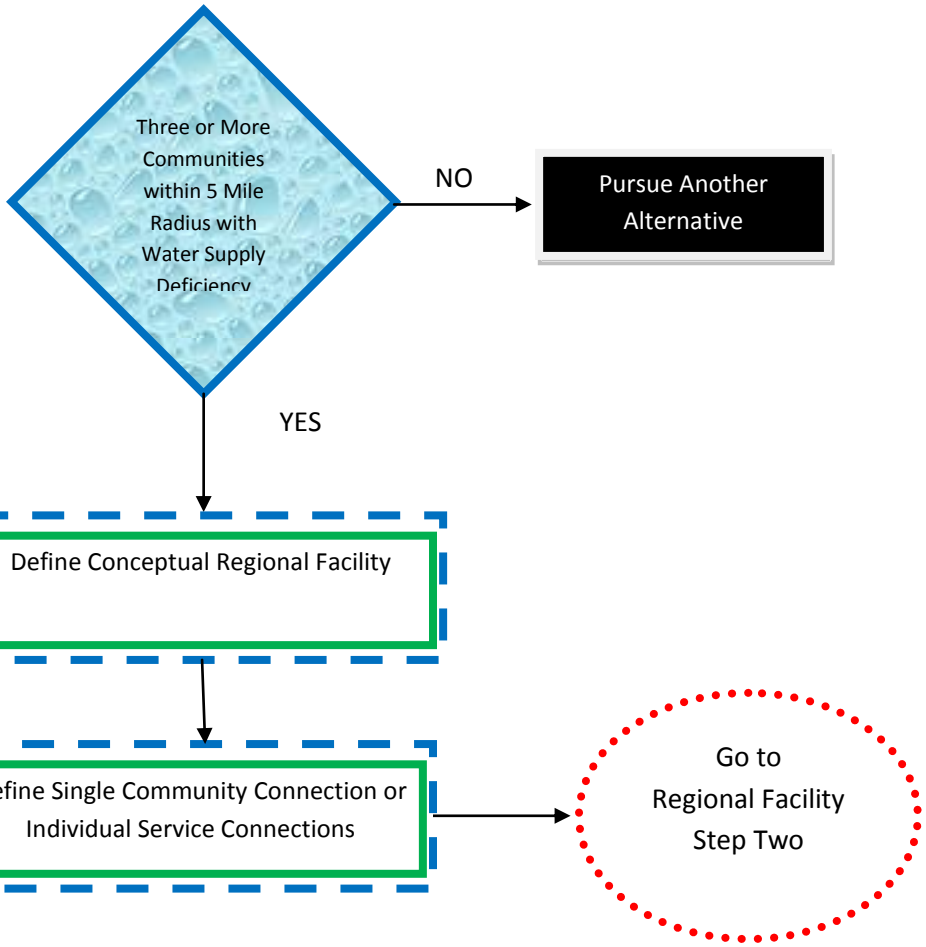


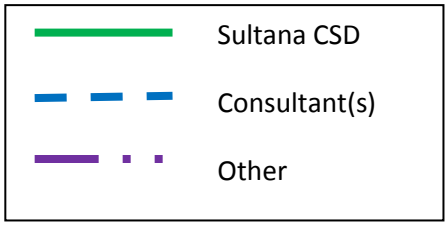

Sultana CSD
See Regional Facility
1 of 2
Regional Facility (Water or Wastewater)
Step 3
Planning Funding Sources Available
NO
Pursue Another Alternative
YES
Proceed with Community Funds
Funding Conditions Acceptable
YES
Accept Funding Source
NO
Proceed with Community Funds
Design Intertie Finalize Consolidation Agreement
Obtain Design Approval from Regulatory Agencies, Political Agencies
Step 4
Identify Alternative to Satisfy Technical Deficiencies
Location of Facilities
Capital Costs
Operation and Maintenance Costs
Regional Facility Authority
Changes to Local Authority
Property Requirements
Water or Sewer System Charges
Regulatory Compliance Considerations
Environmental Compliance Considerations
Step 5
Prepare Funding Application(s)
Funding Sources Available (Offer of Funds)
NO
YES
Funding Conditions Acceptable
NO
Pursue Another Alternative
YES
Proceed with Proposition 218 to Define Rate Structure
Proposition 218 Passes
NO
Pursue Another Alternative
YES
Acquire Well Site and Viable Route to Connect to Water System
Step 6
Finalize Agreements
Design Improvements
CEQA Compliance
Regulatory Permit Applications
Regulatory Approval
NO
Pursue Another Alternative
YES
Step 7
Construct Improvements
Implement Regional System or Facility Operation

Sultana CSD

Regional Facility (Water or Wastewater)

Step One

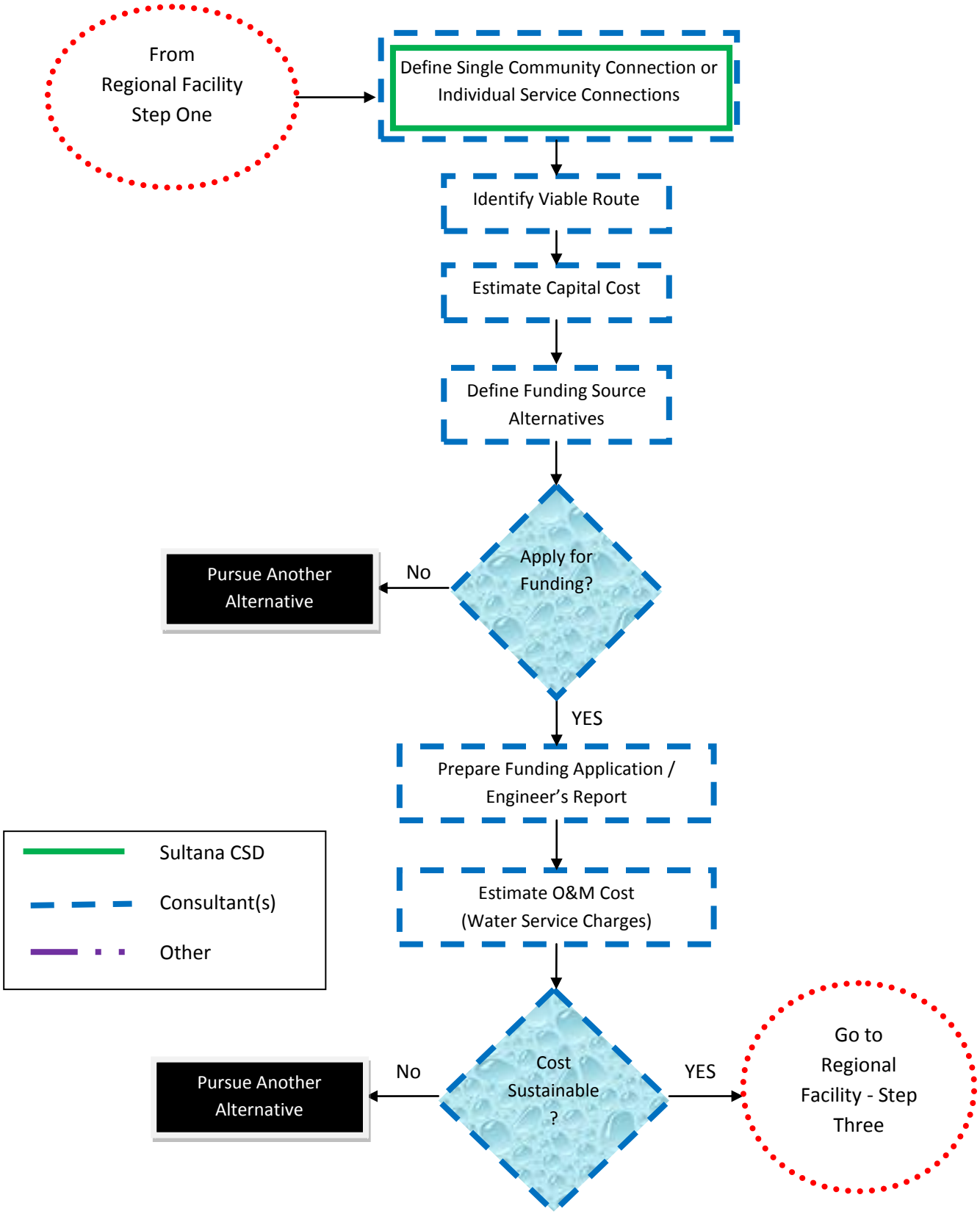




Sultana CSD

Regional Facility (Water or Wastewater)

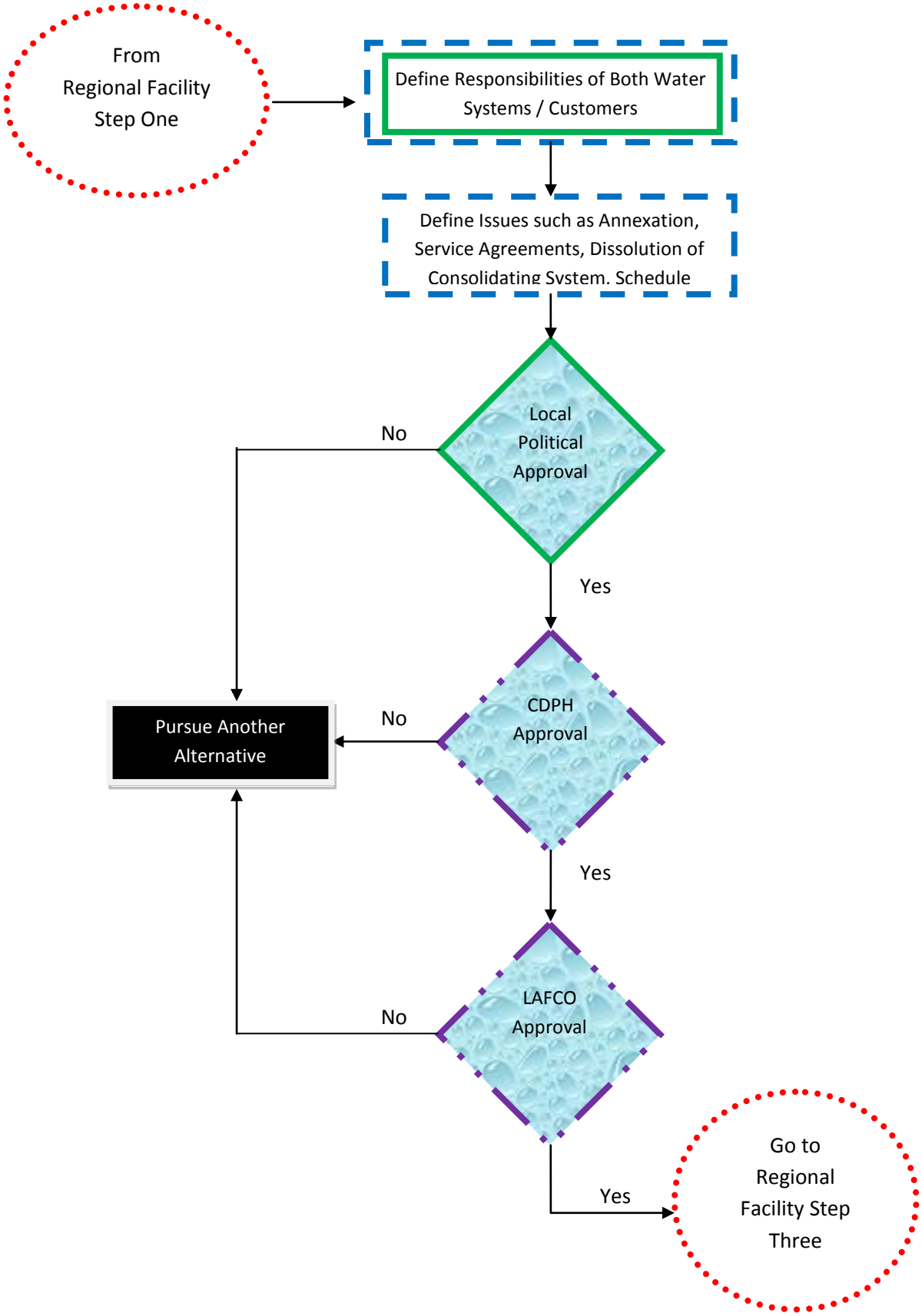
Step Two A
(Technical)



Sultana CSD

Regional Facility (Water or Wastewater)

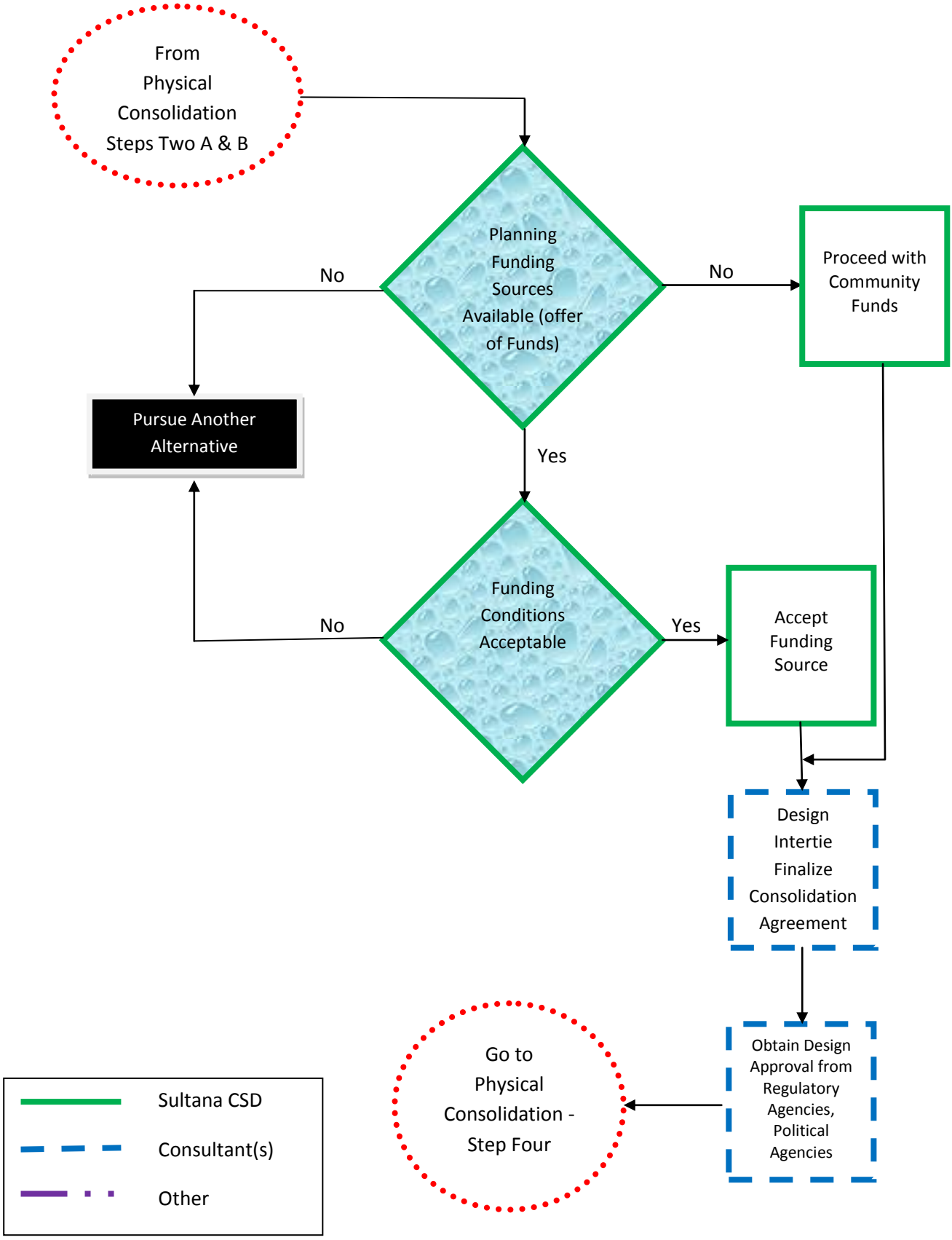
Step Two B
(Political)



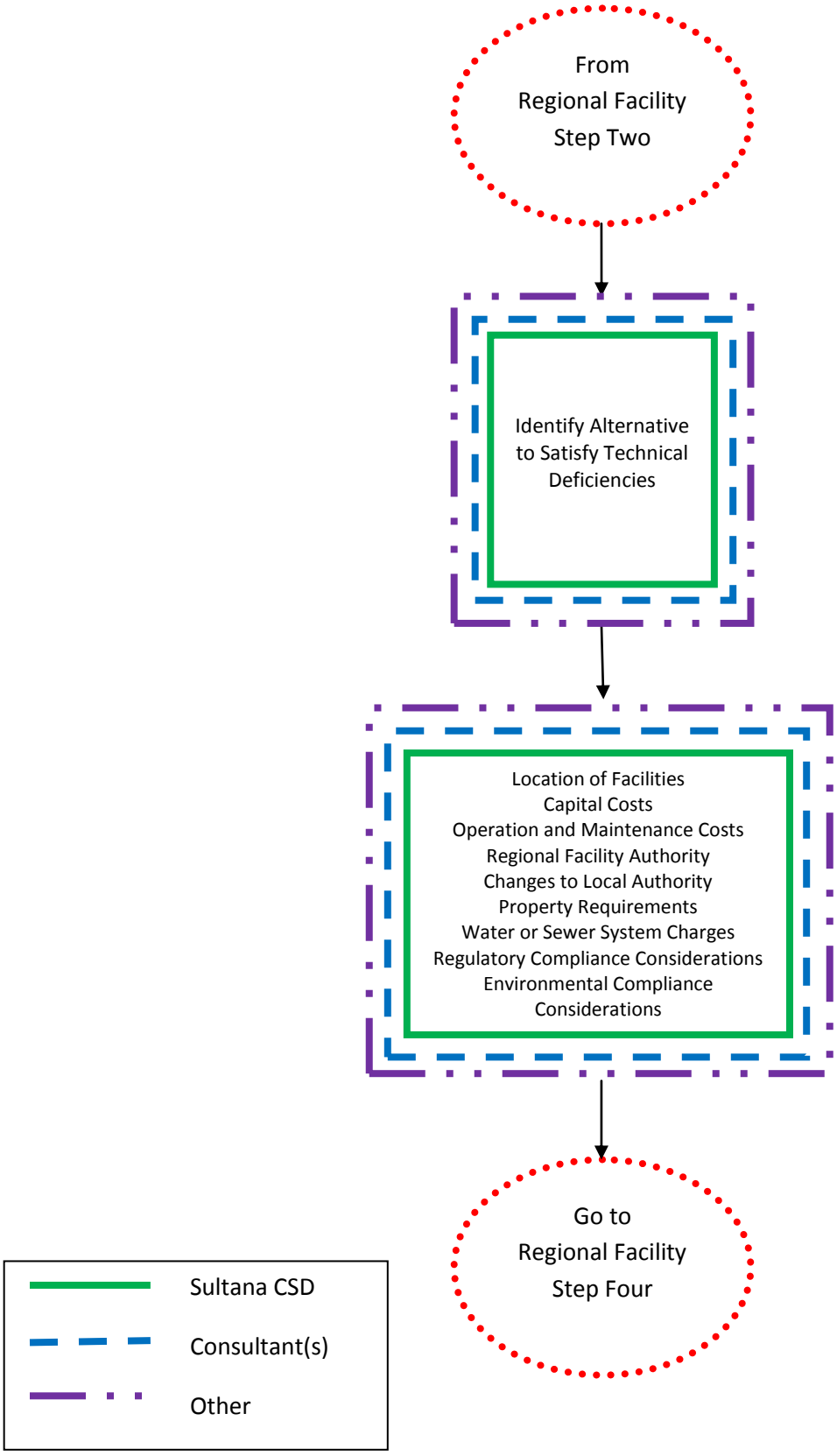
Sultana CSD

Regional Facility (Water or Wastewater)

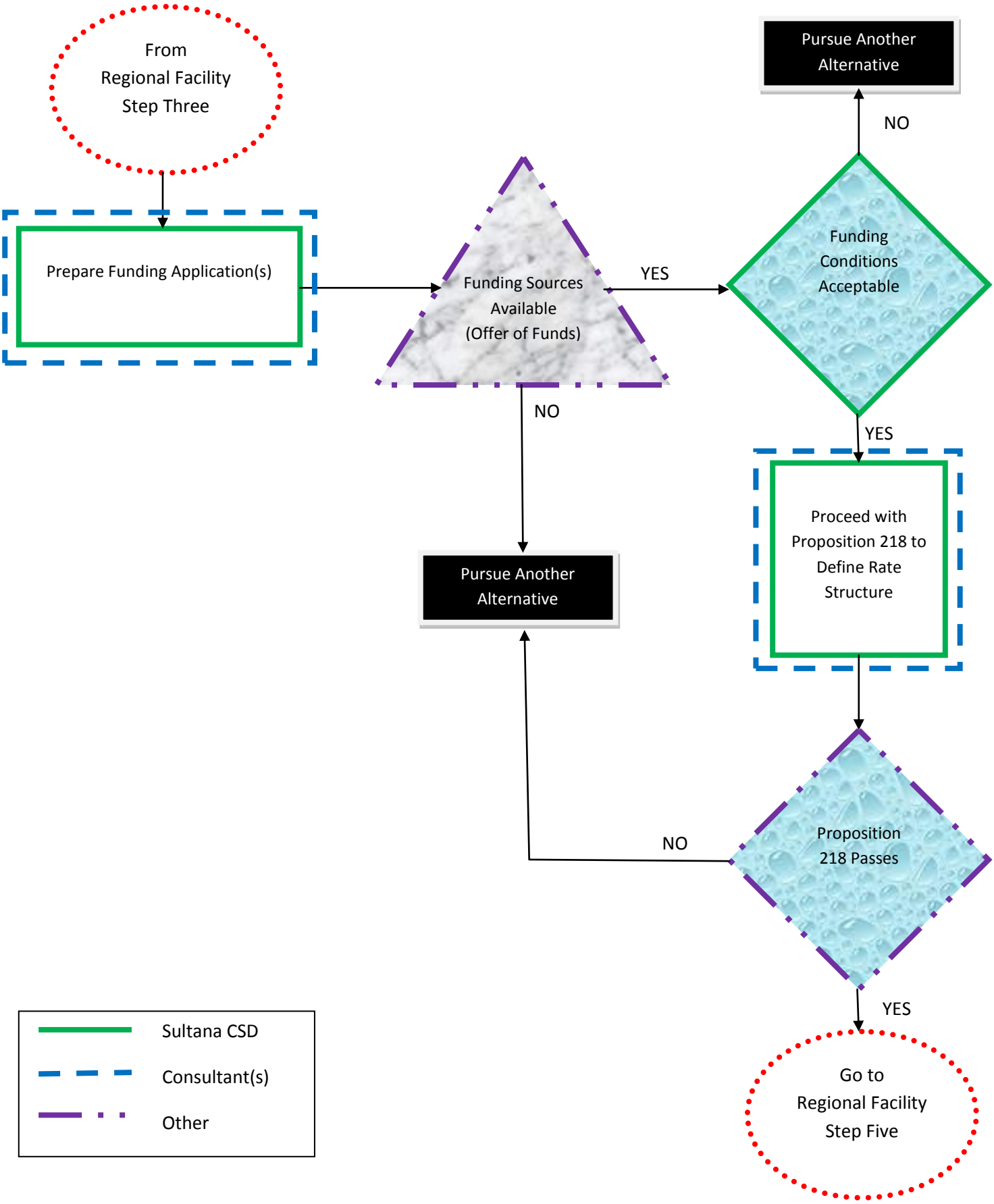
Step Three



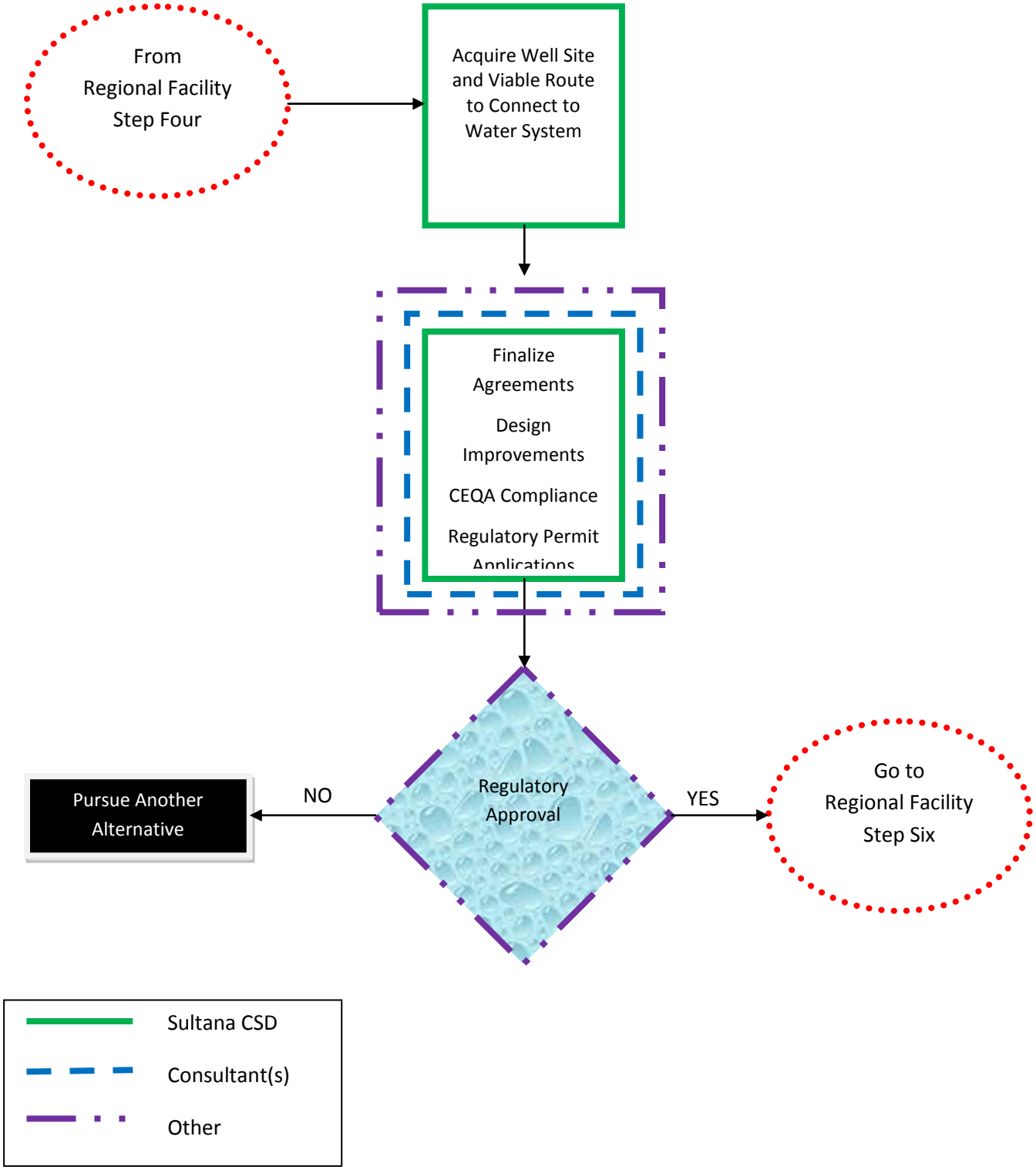
Sultana CSD
Regional Facility (Water or Wastewater)
Step Four



Sultana CSD
Regional Facility (Water or Wastewater)
Step Five



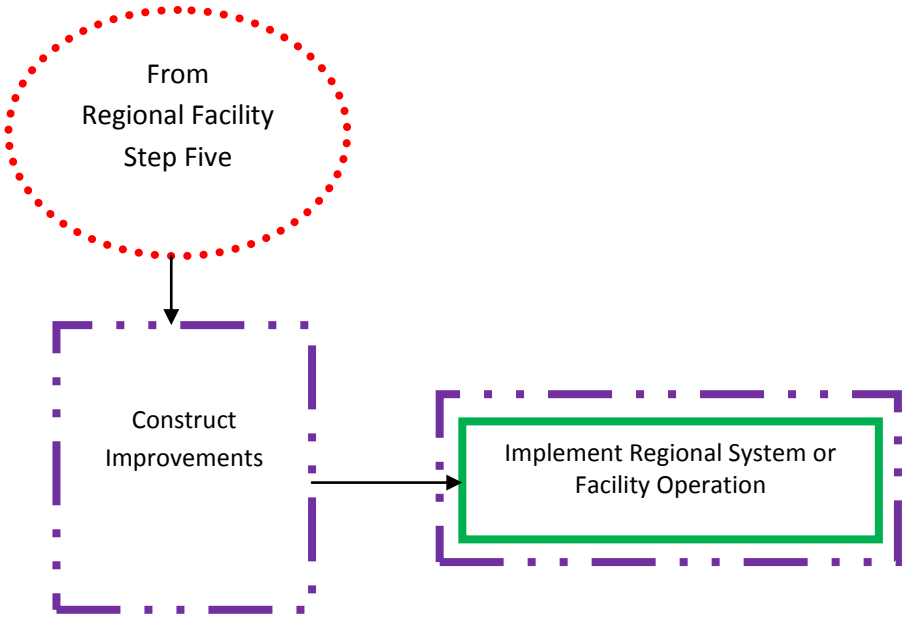
Sultana CSD
Regional Facility (Water or Wastewater)
Step Six

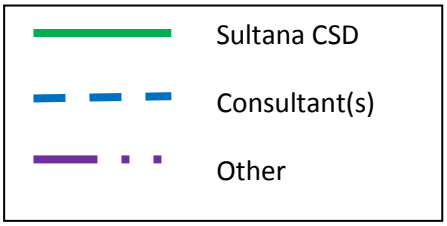


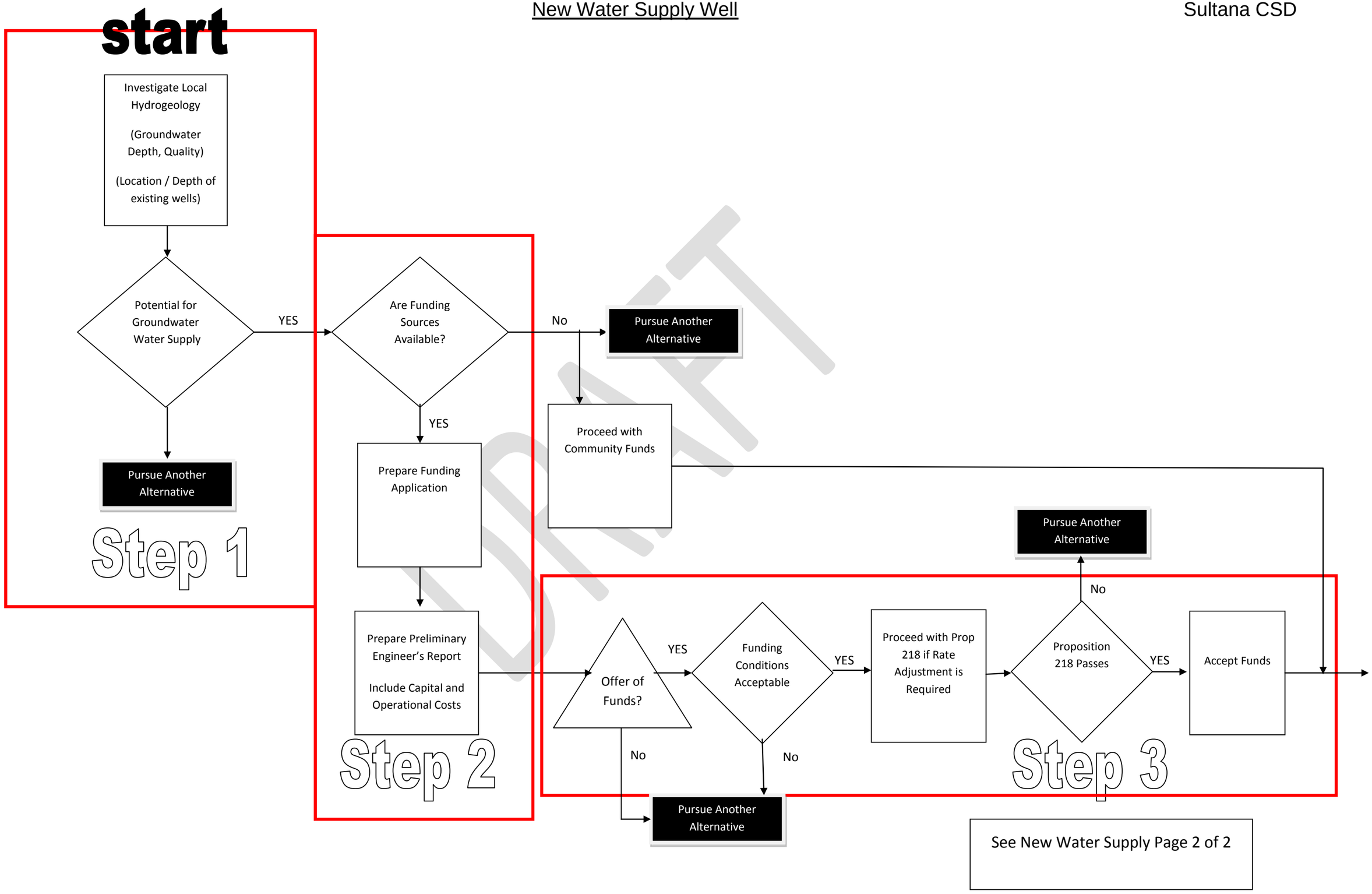
Sultana CSD

Regional Facility (Water or Wastewater)

Step Seven

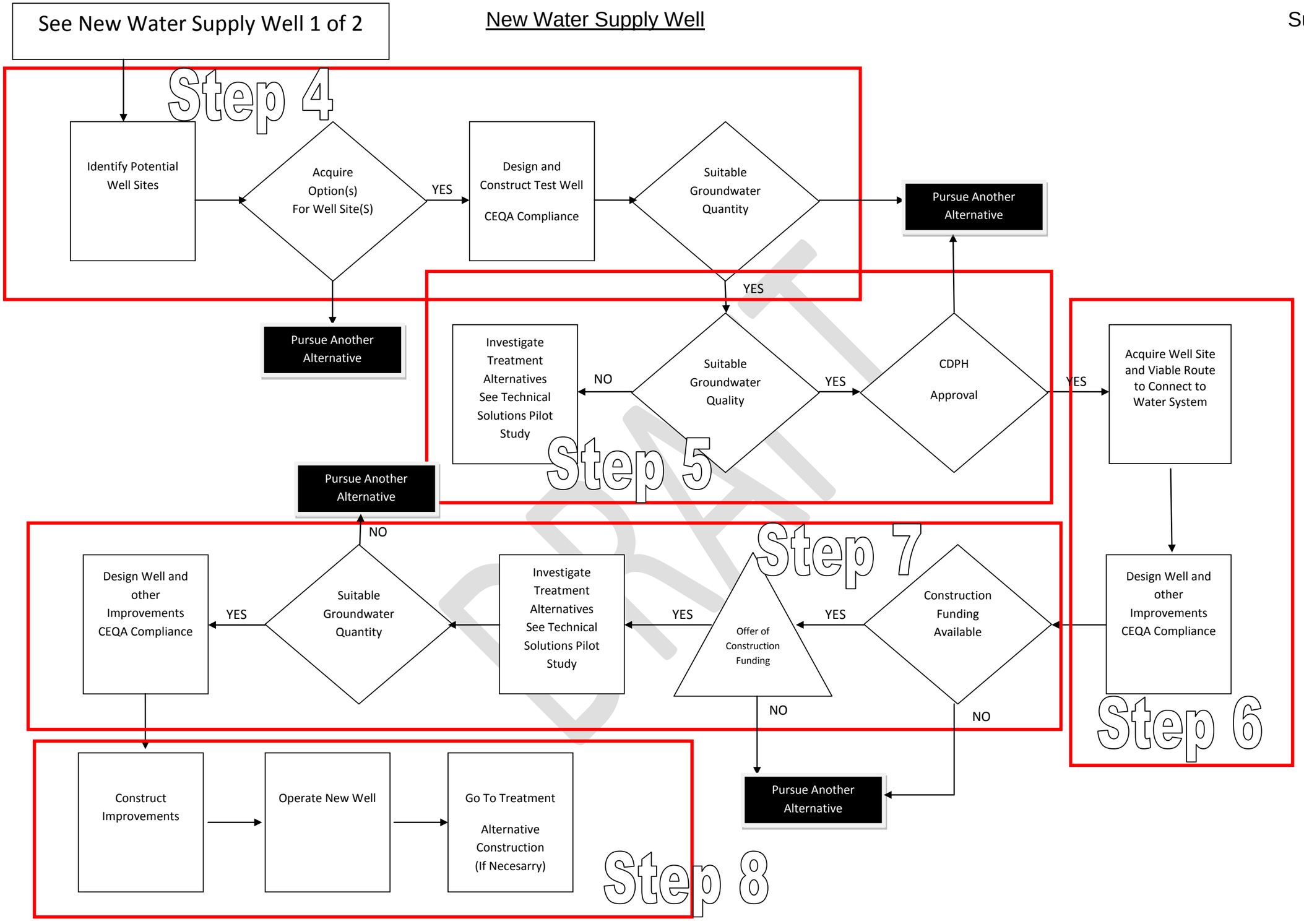






See New Water Supply Page 2 of 2

New Water Supply Well



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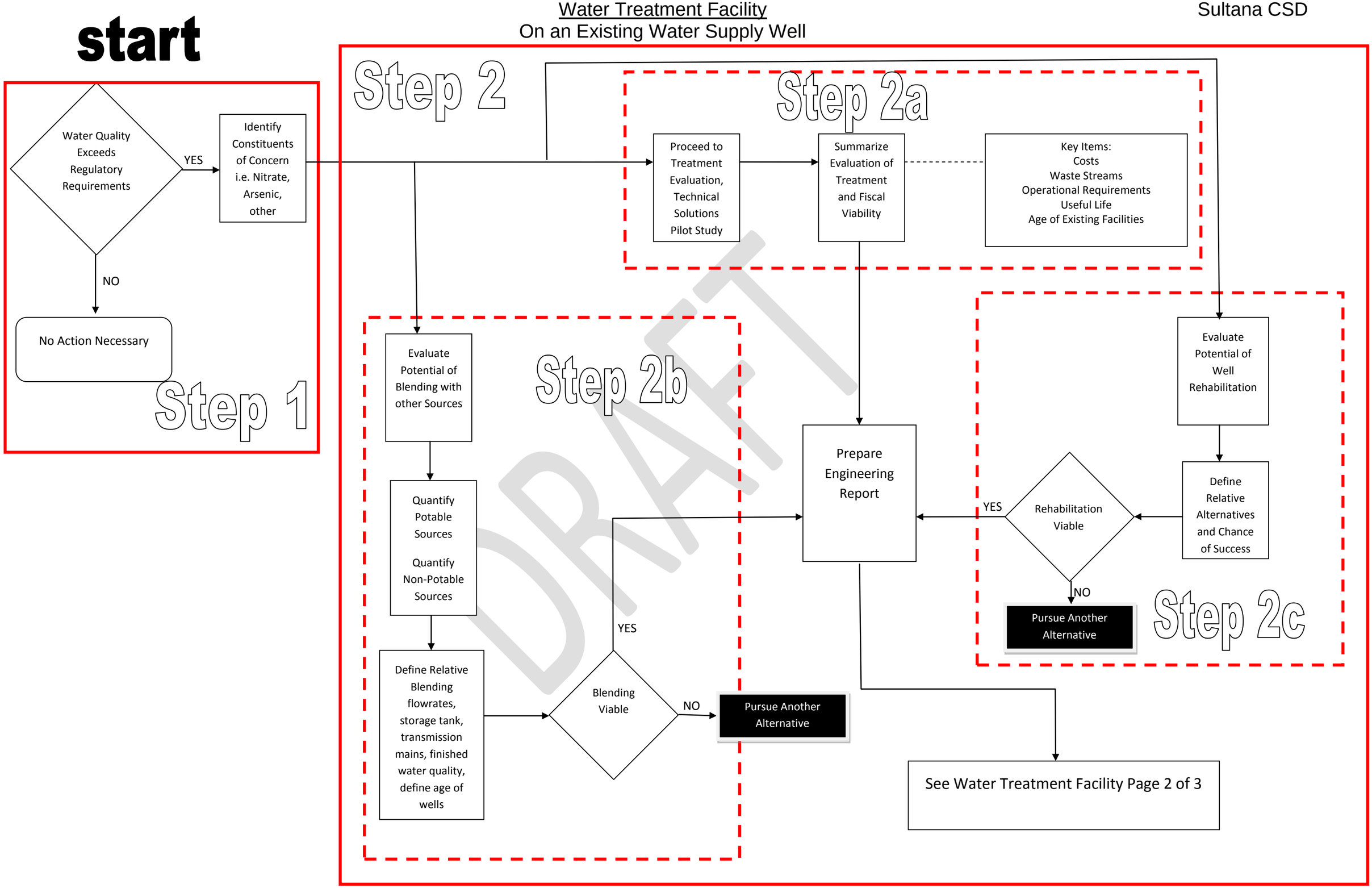
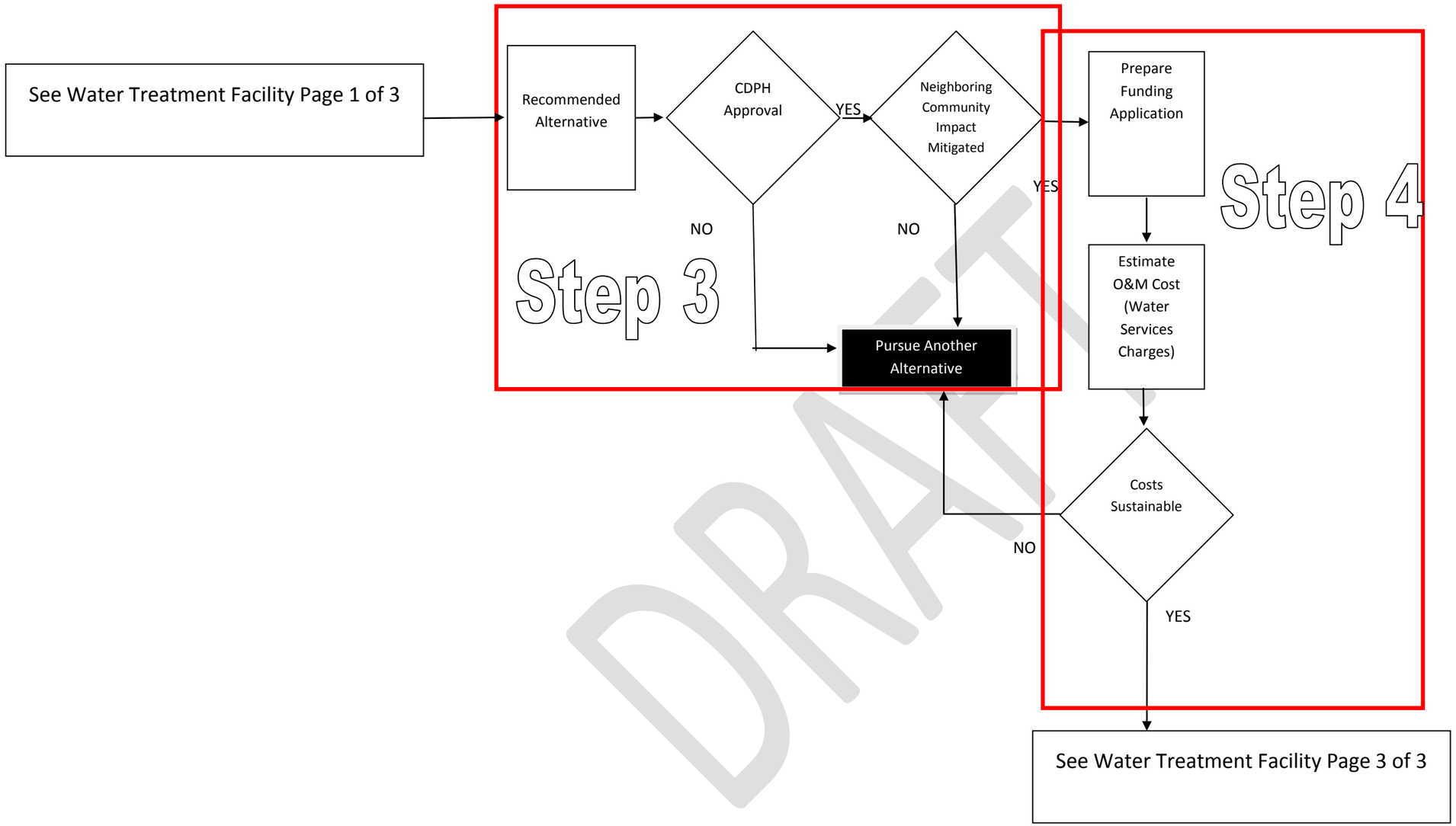
Water Treatment Facility
On an Existing Water Supply Well

Sultana CSD



Water Treatment Facility
On an Existing Water Supply Well



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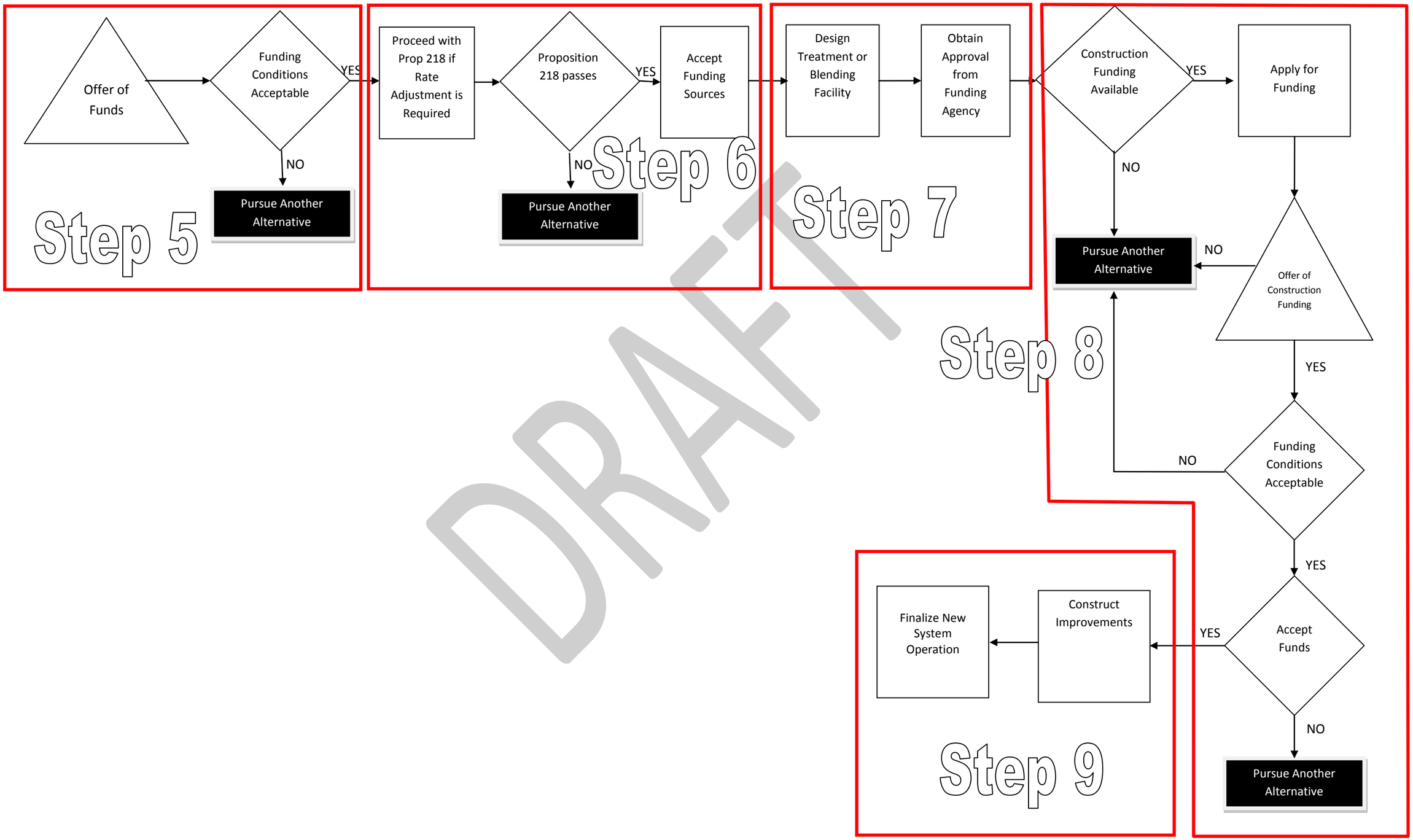
See Water Treatment Facility Page 2 of 3

Water Treatment Facility
On an Existing Water Supply Well

Sultana CSD



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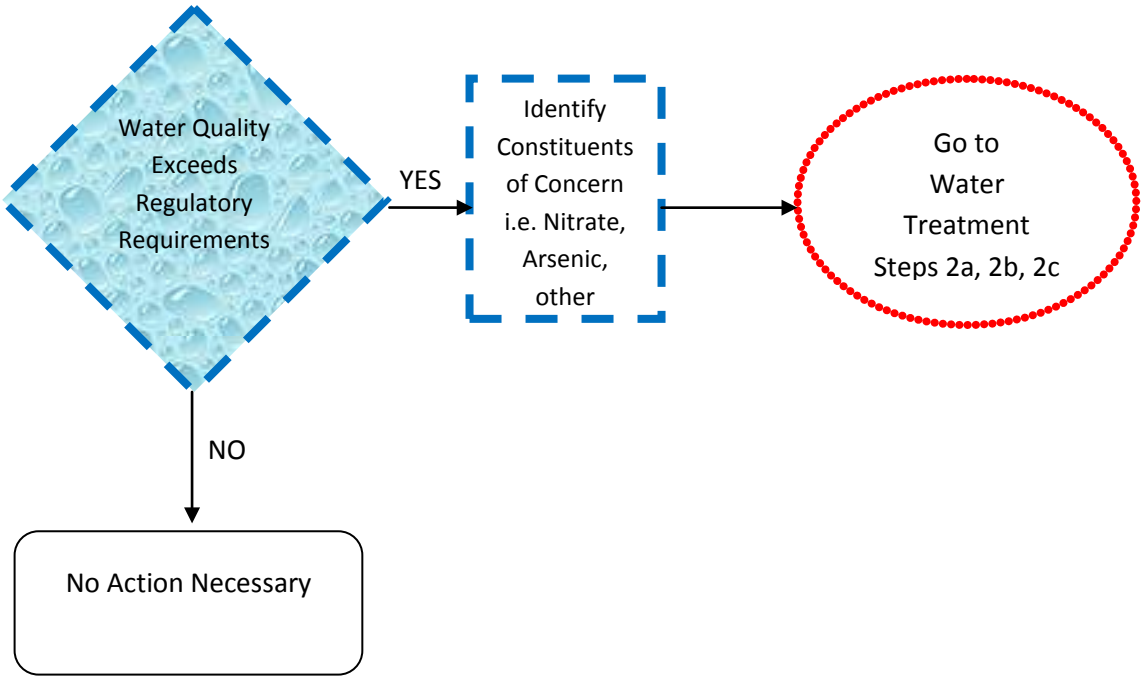
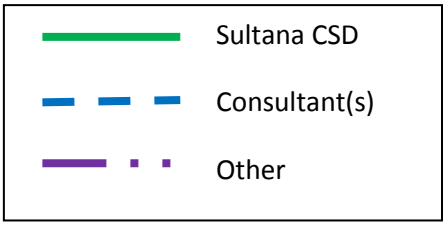
Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step One



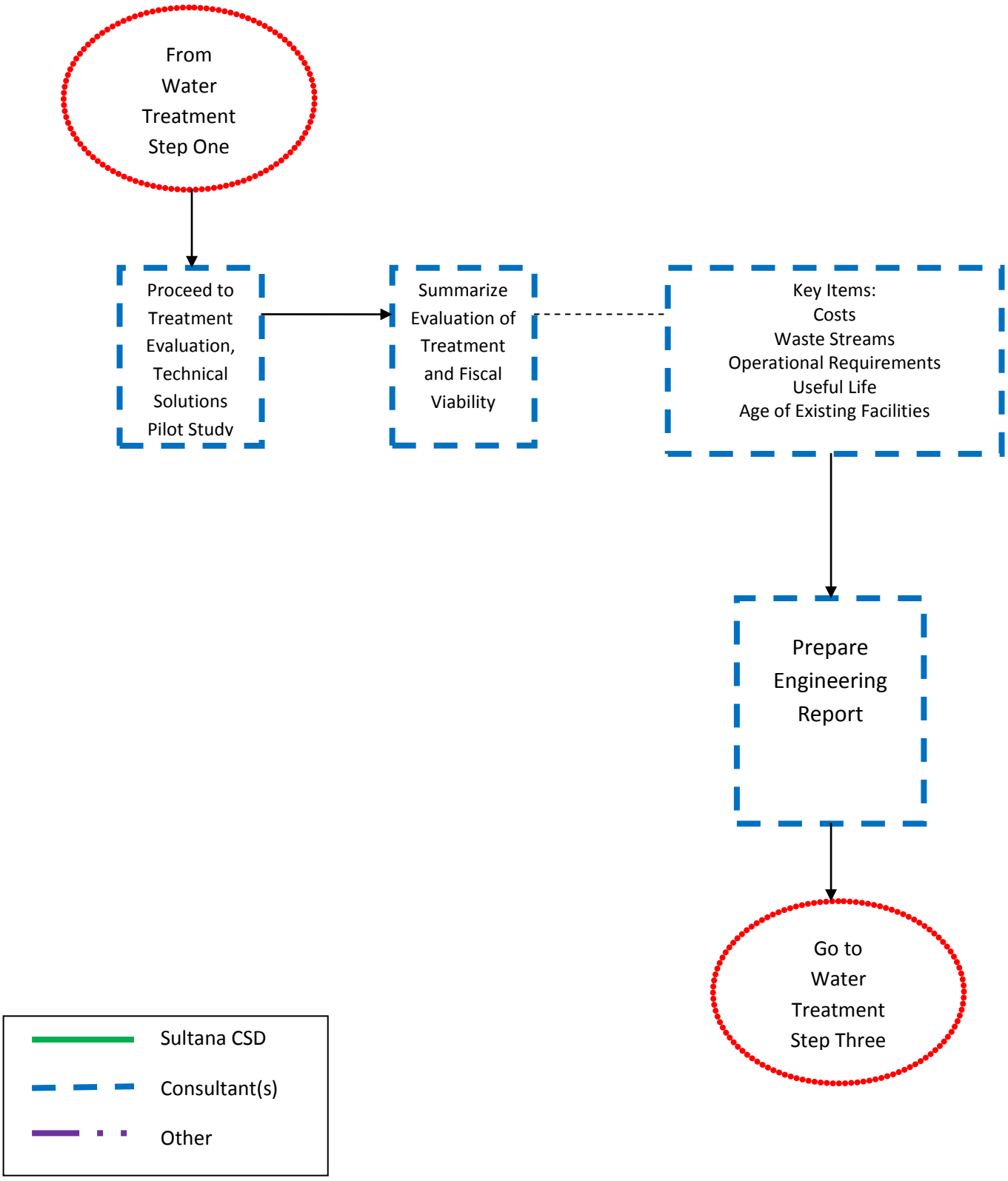


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 2a

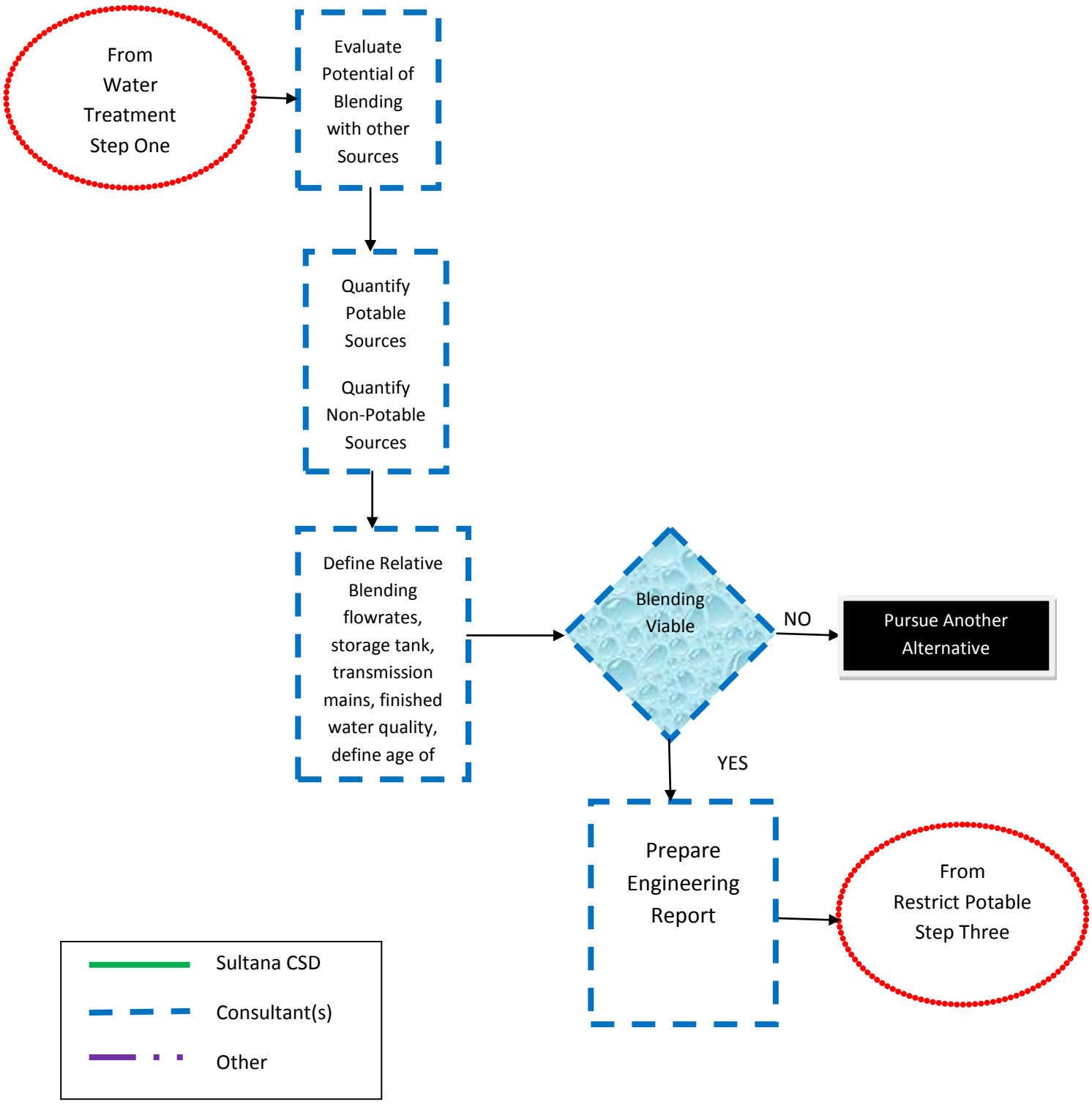


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 2b

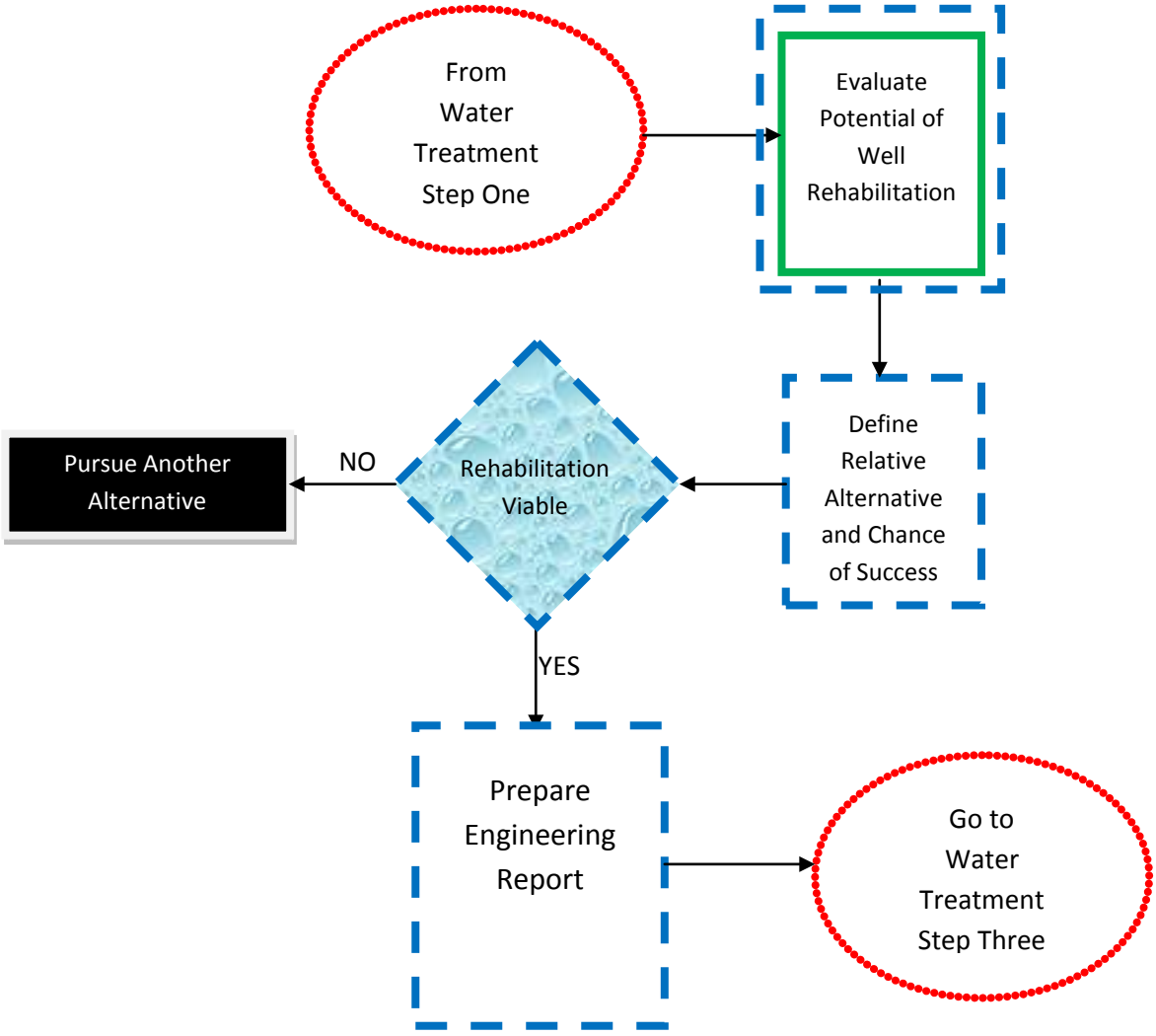


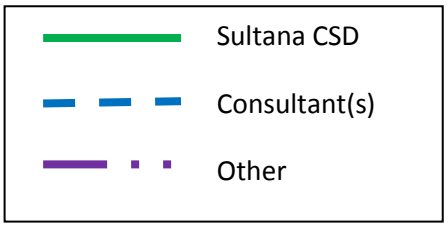
Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 2c



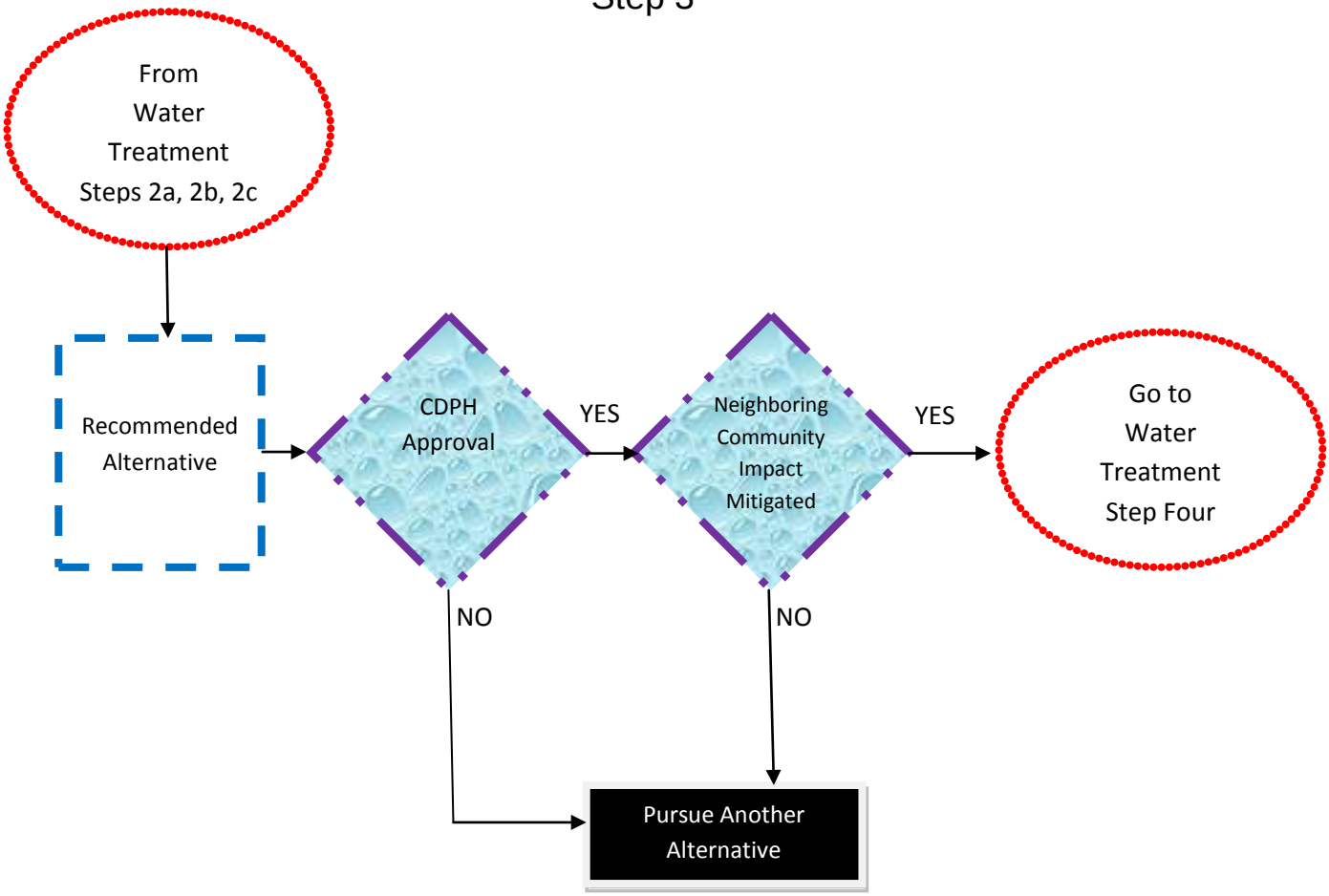


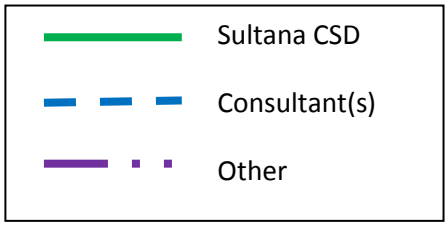
Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 3



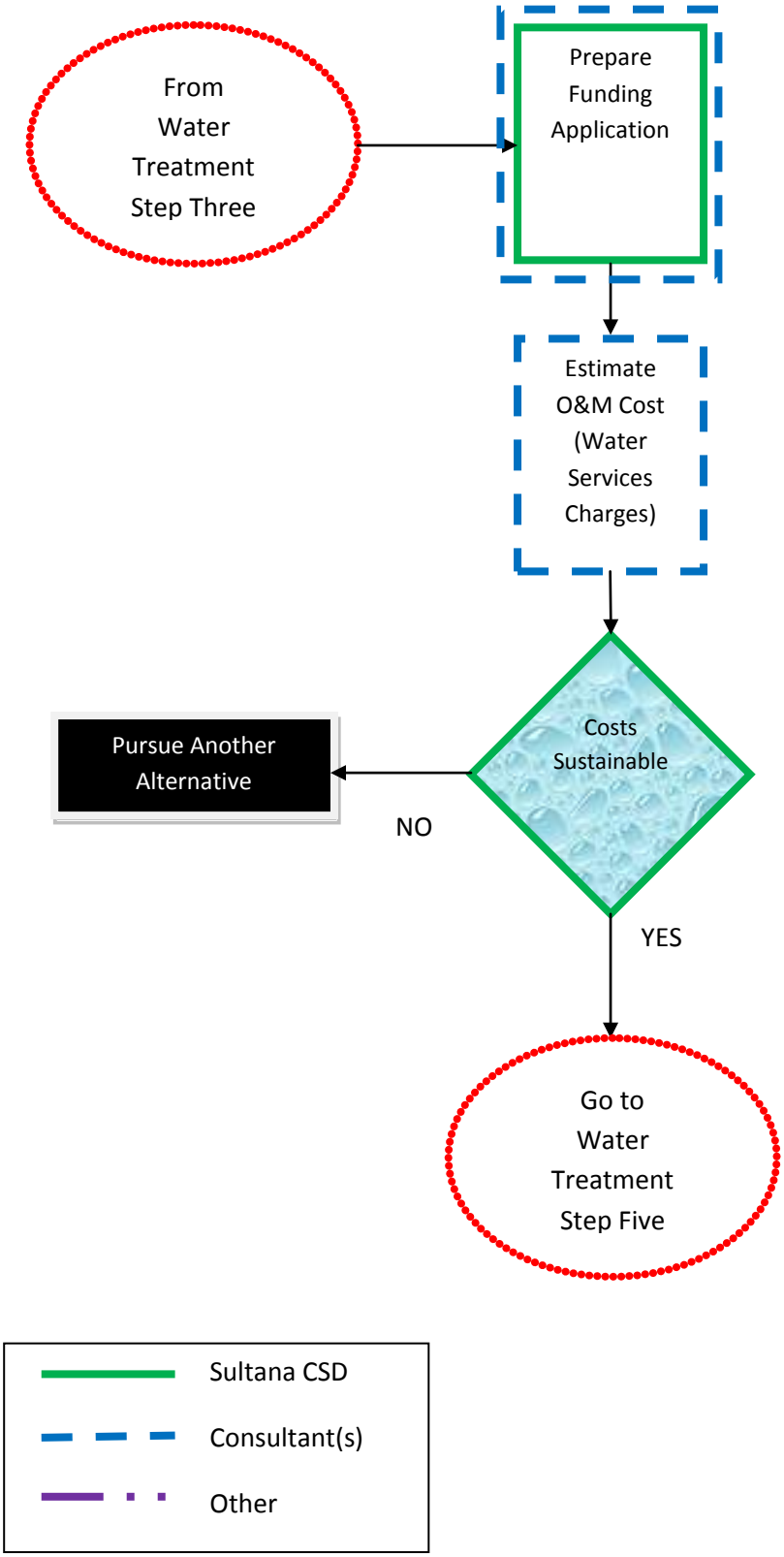


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 4

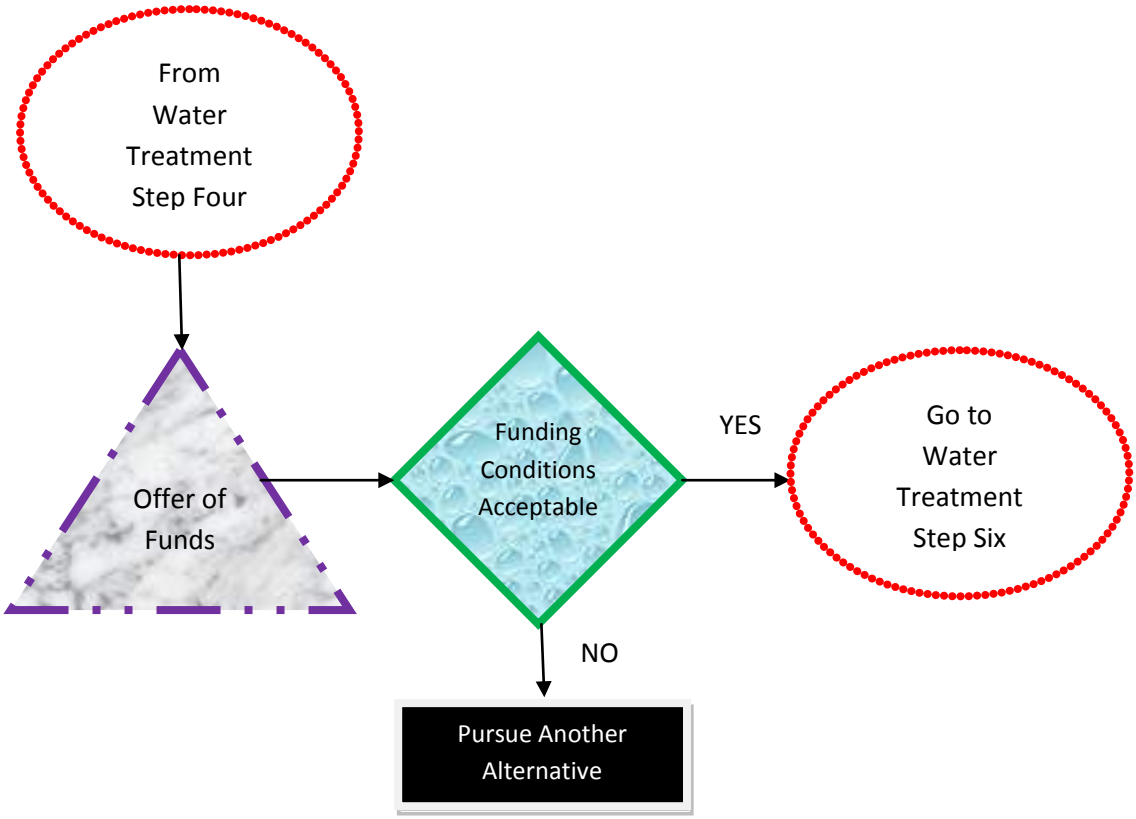


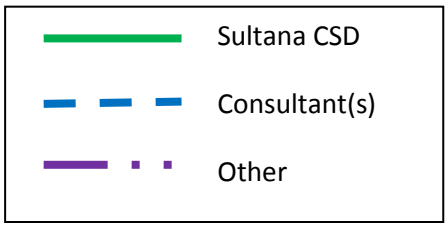
Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 5



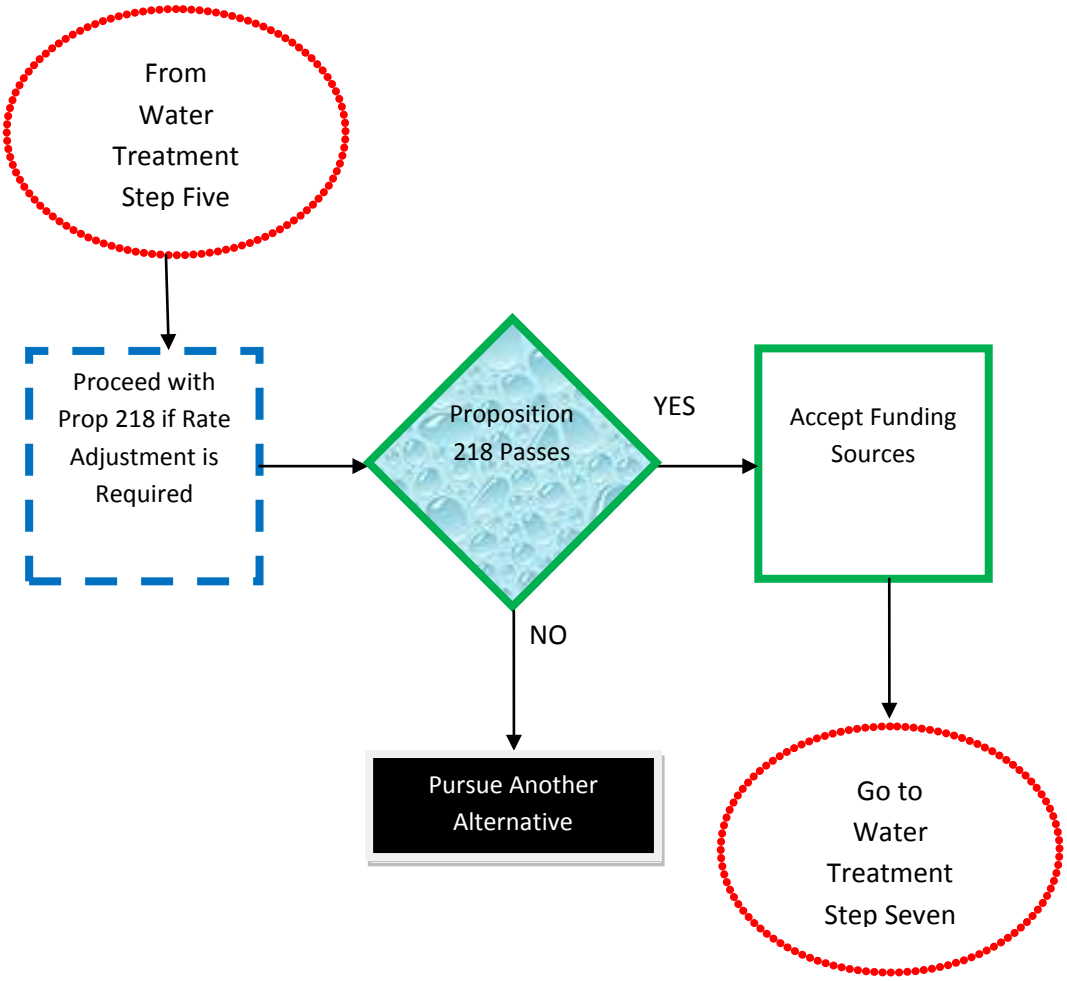


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 6

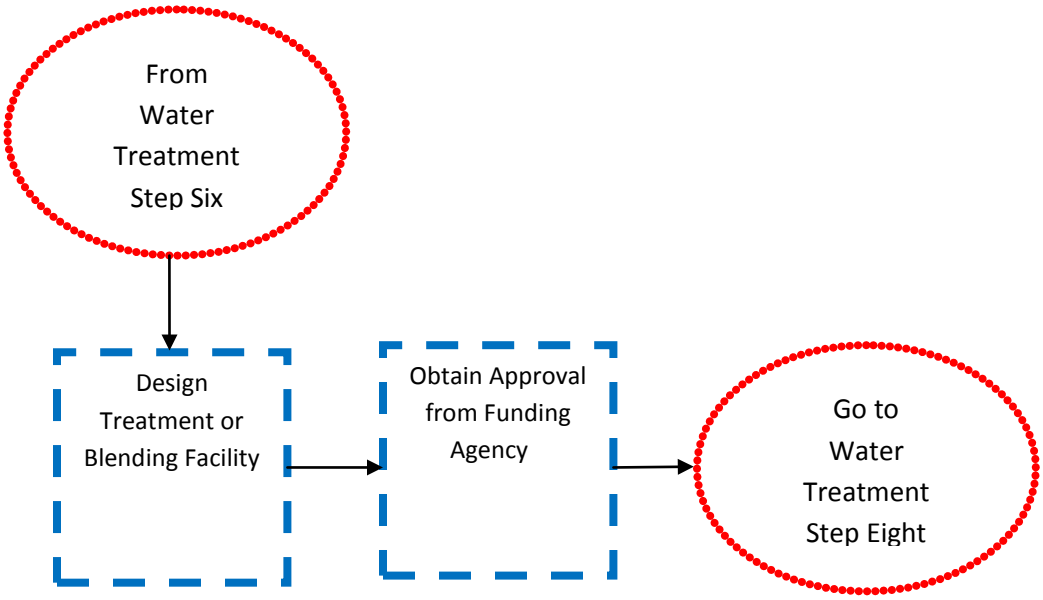


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 7

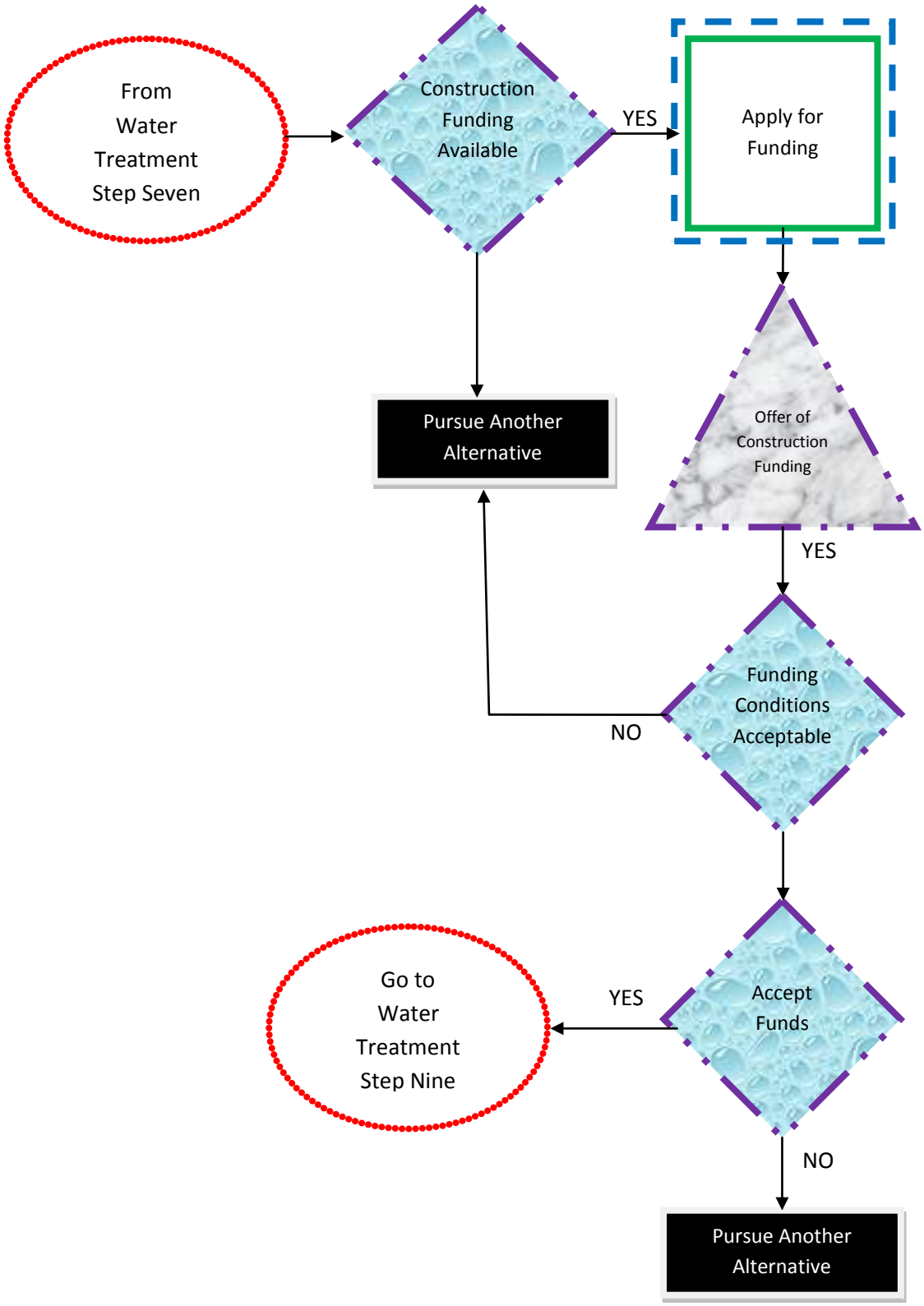


Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

Step 8

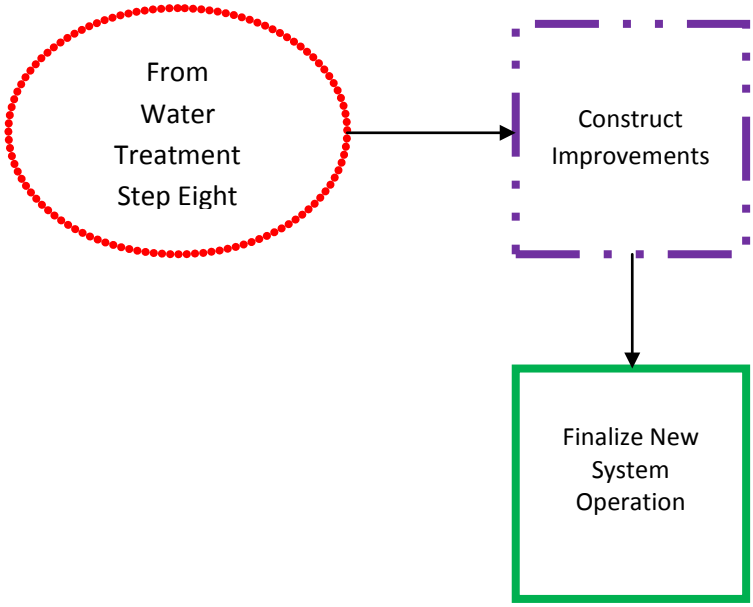


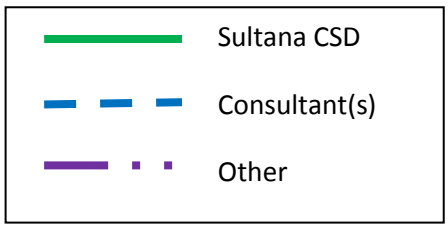
Sultana CSD

Water Treatment Facility

On a New or Existing Water supply Well

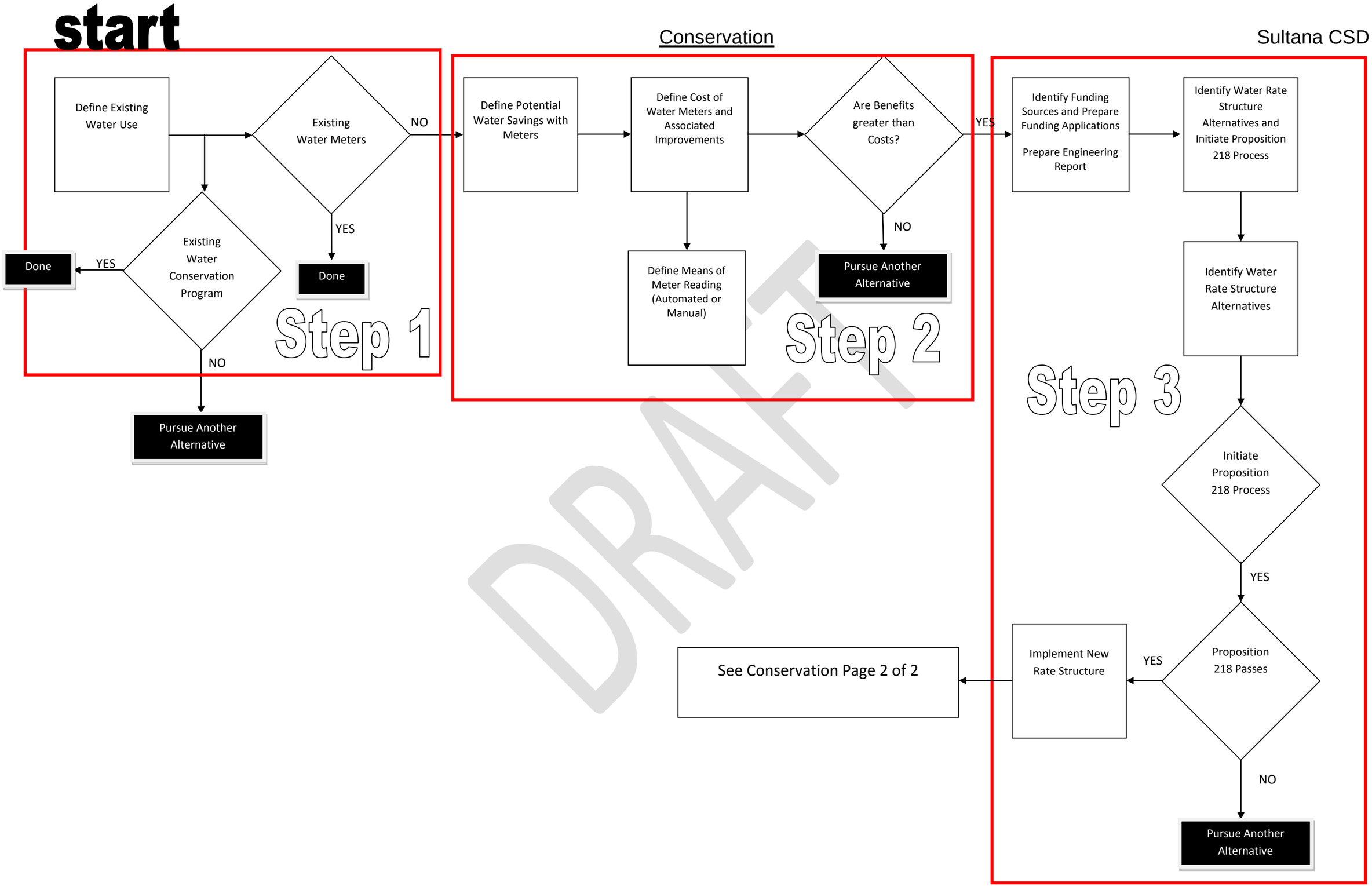
Step 9





Conservation

Sultana CSD



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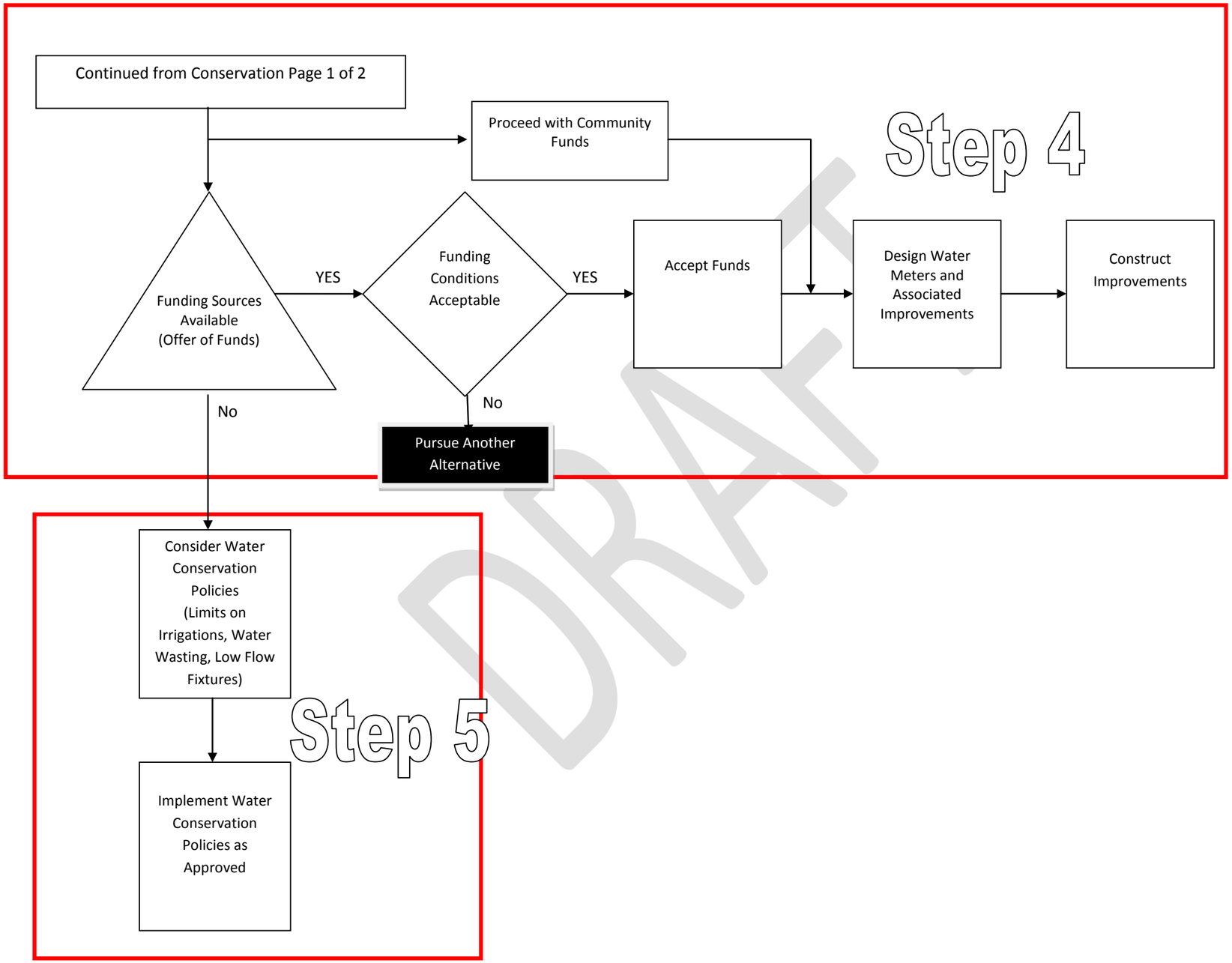
Continued from Conservation Page 1 of 2
Proceed with Community Funds
Step 4
Funding Sources Available (Offer of Funds)
YES
Funding Conditions Acceptable
YES
Accept Funds
Design Water Meters and Associated Improvements
Construct Improvements
No
No
Pursue Another Alternative
Consider Water Conservation Policies (Limits on Irrigations, Water Wasting, Low Flow Fixtures)
Step 5
Implement Water Conservation Policies as Approved

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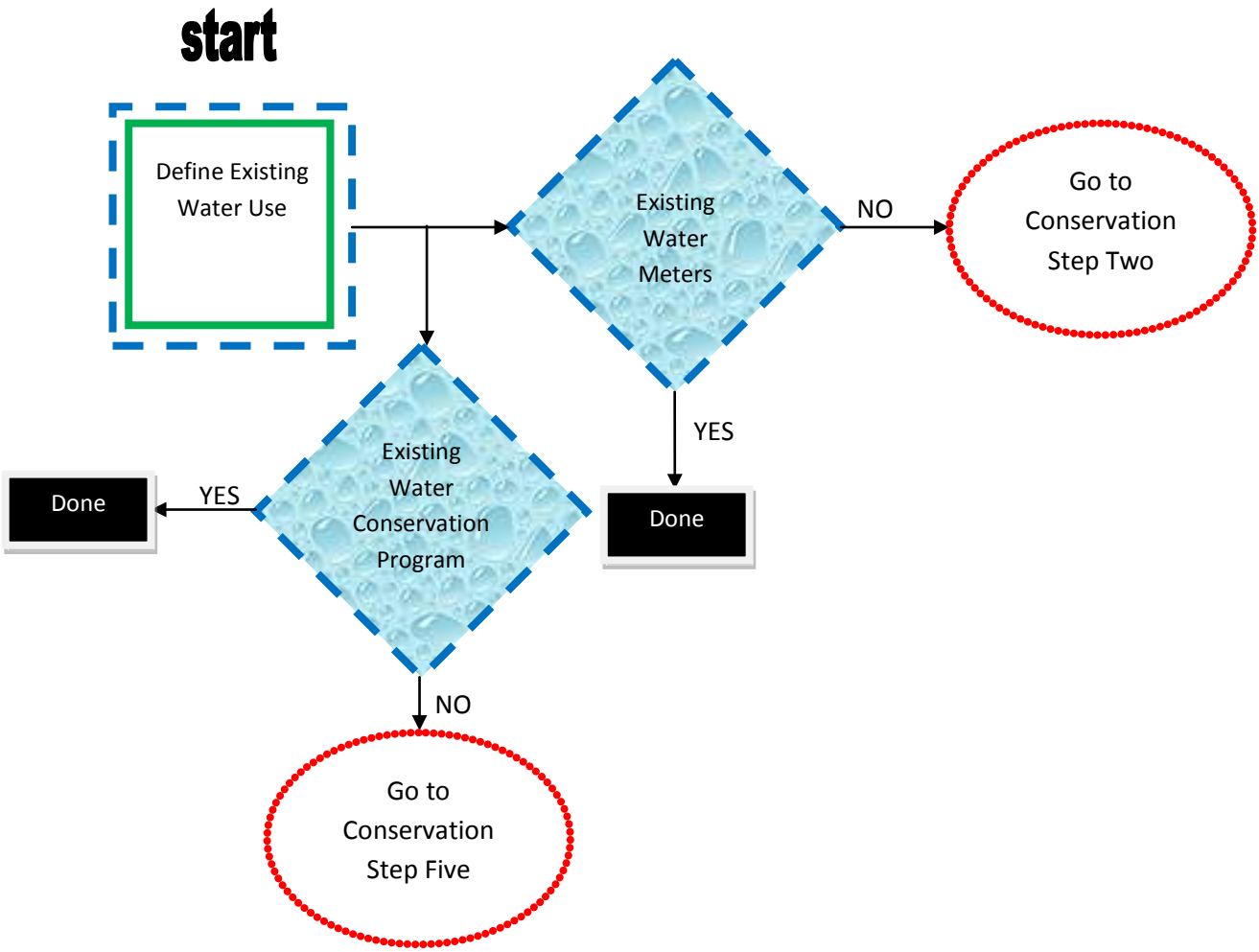
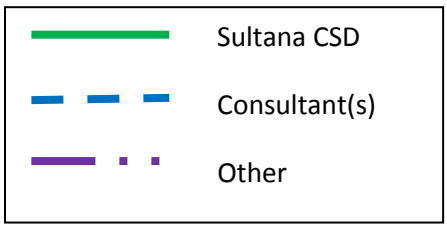
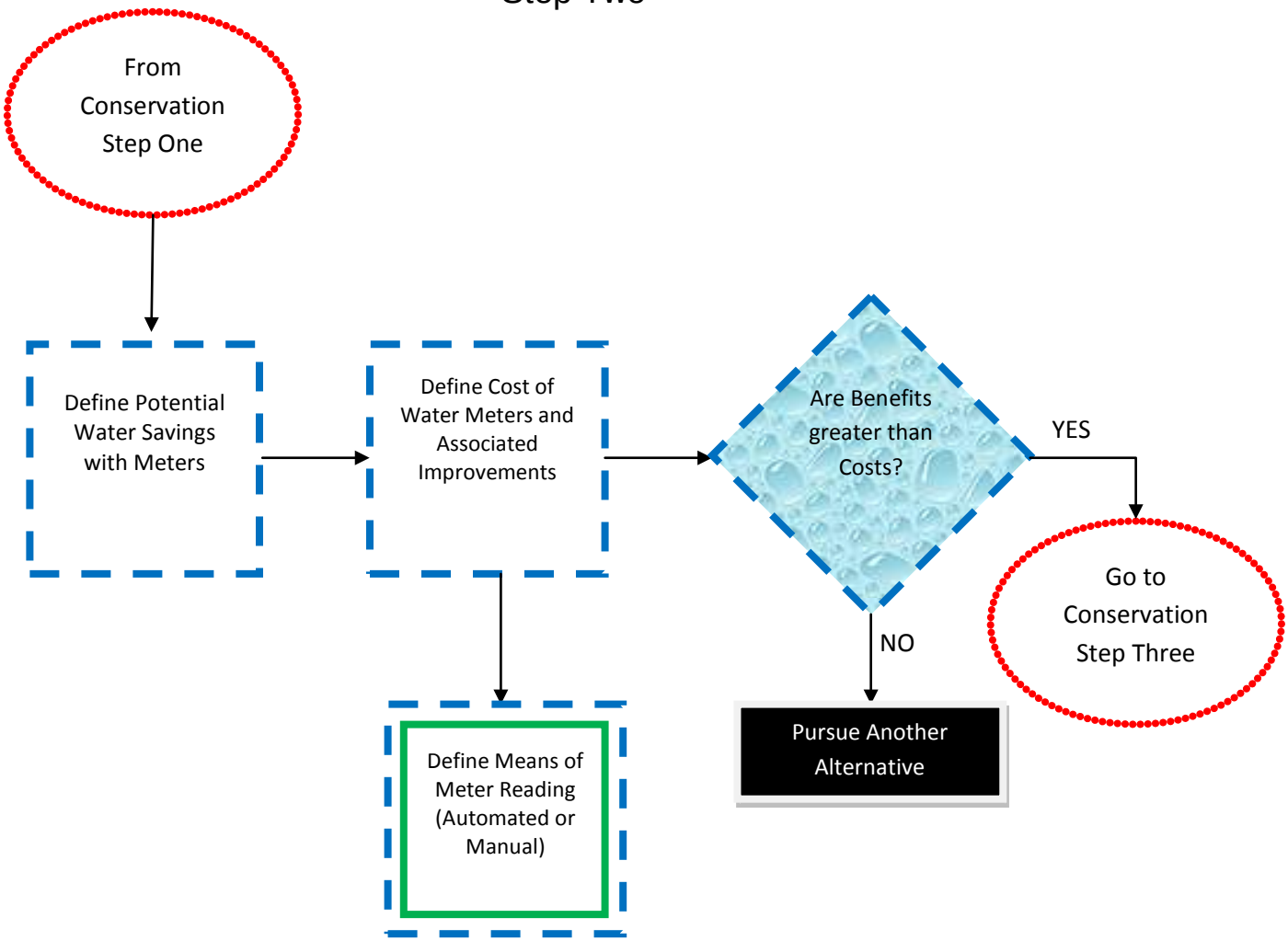
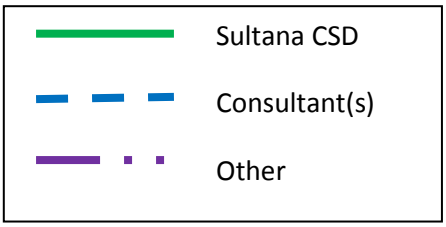
Sultana CSD
Conservation
Step One



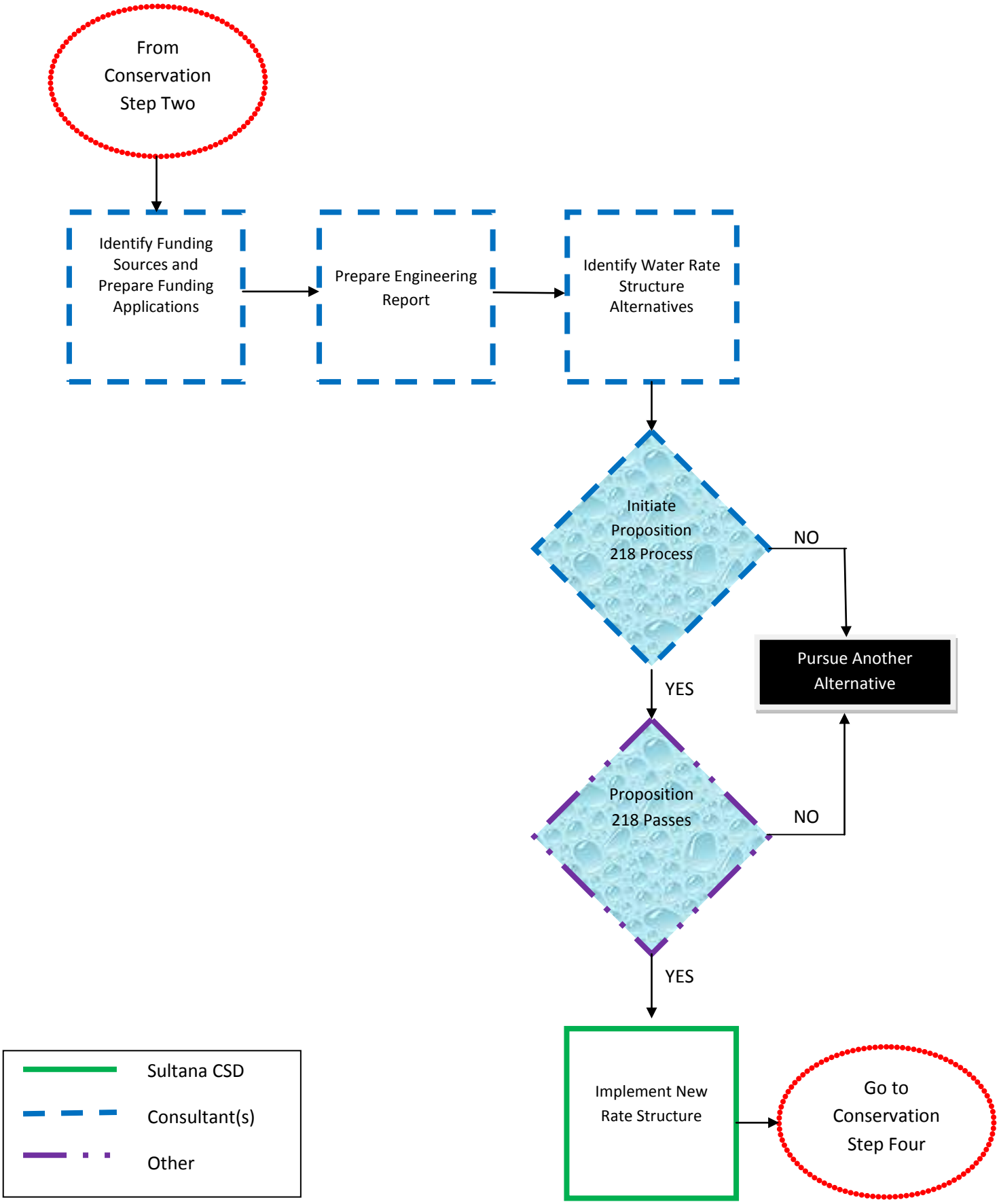


Sultana CSD
Conservation
Step Two

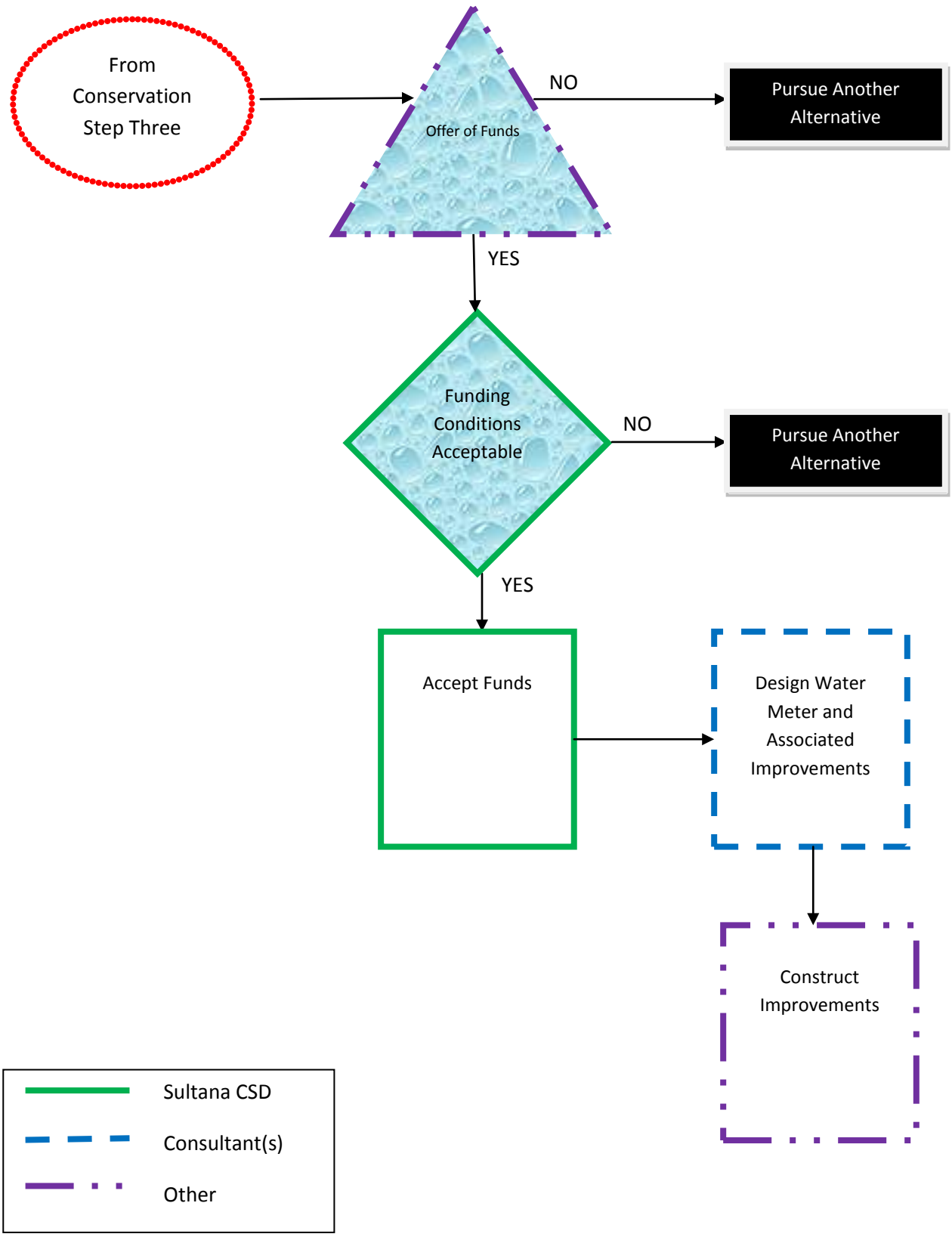




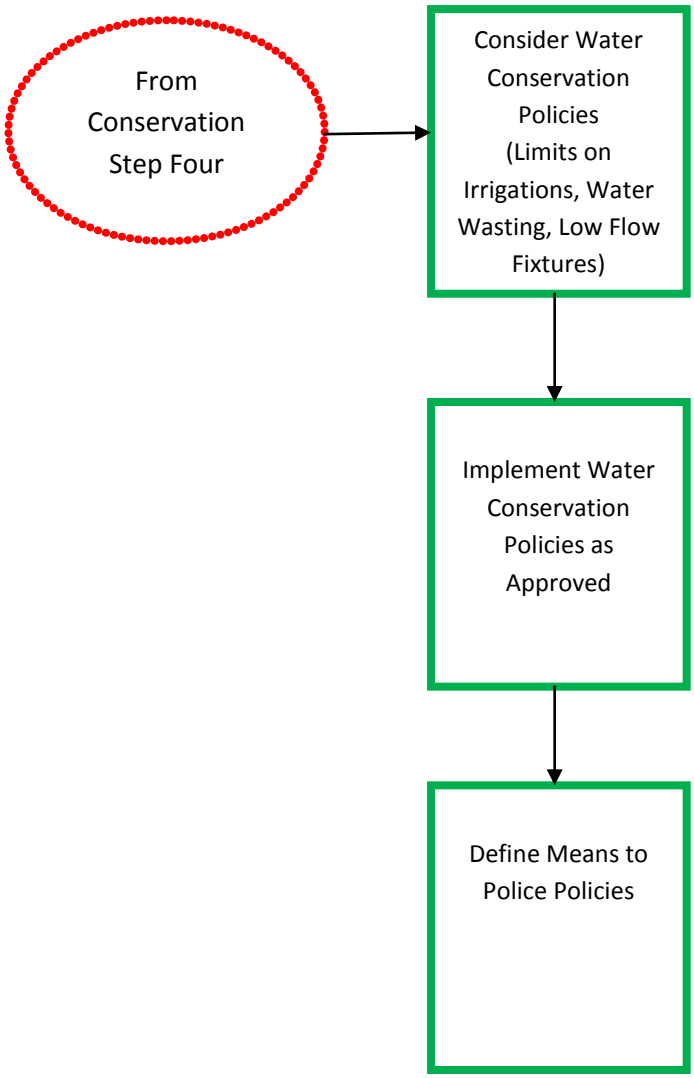
Sultana CSD
Conservation
Step Three

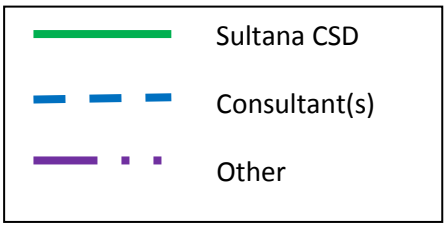


Sultana CSD
Conservation
Step Four



Sultana CSD
Conservation
Step Five

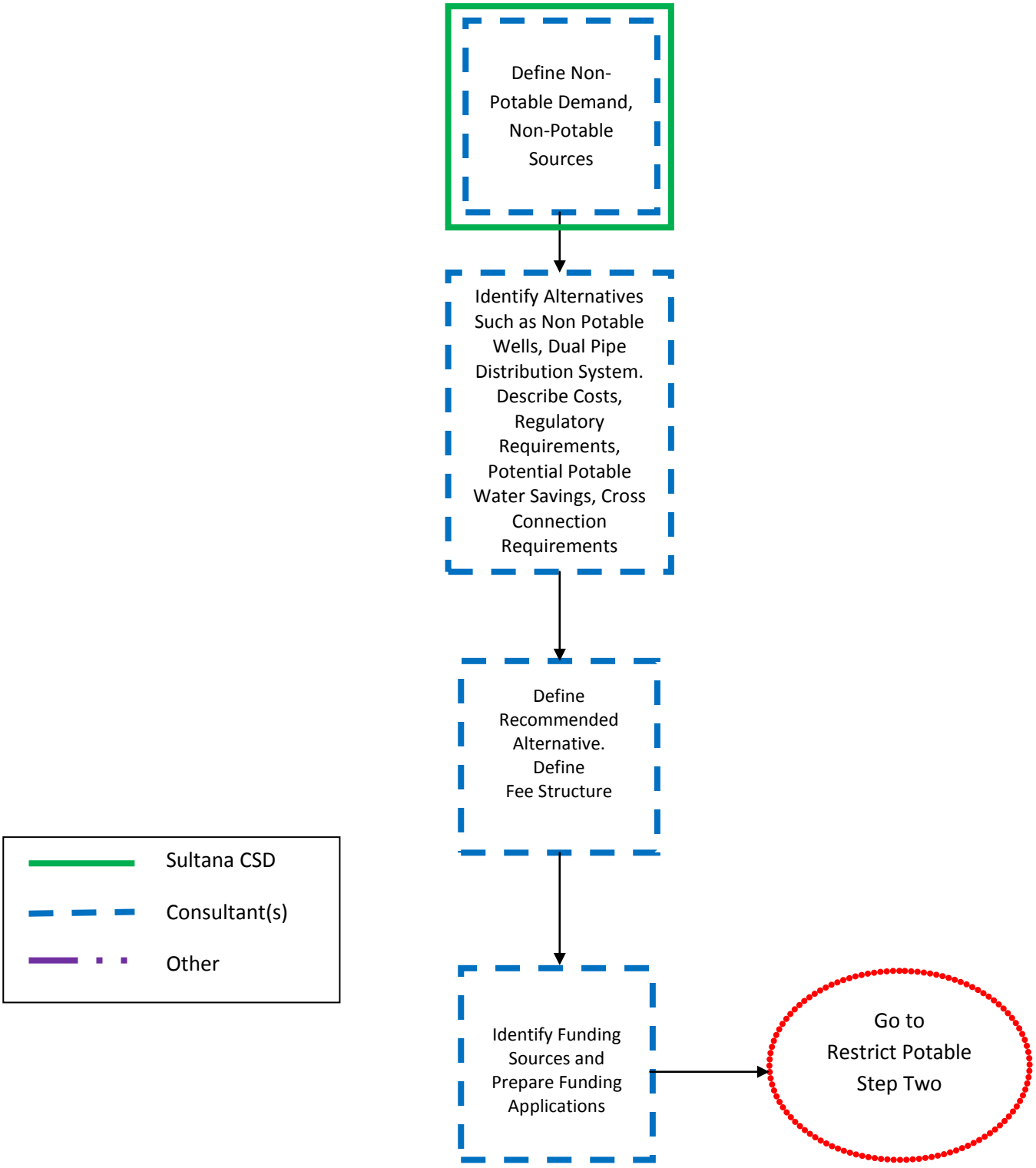




Sultana CSD

Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step One



Sultana CSD

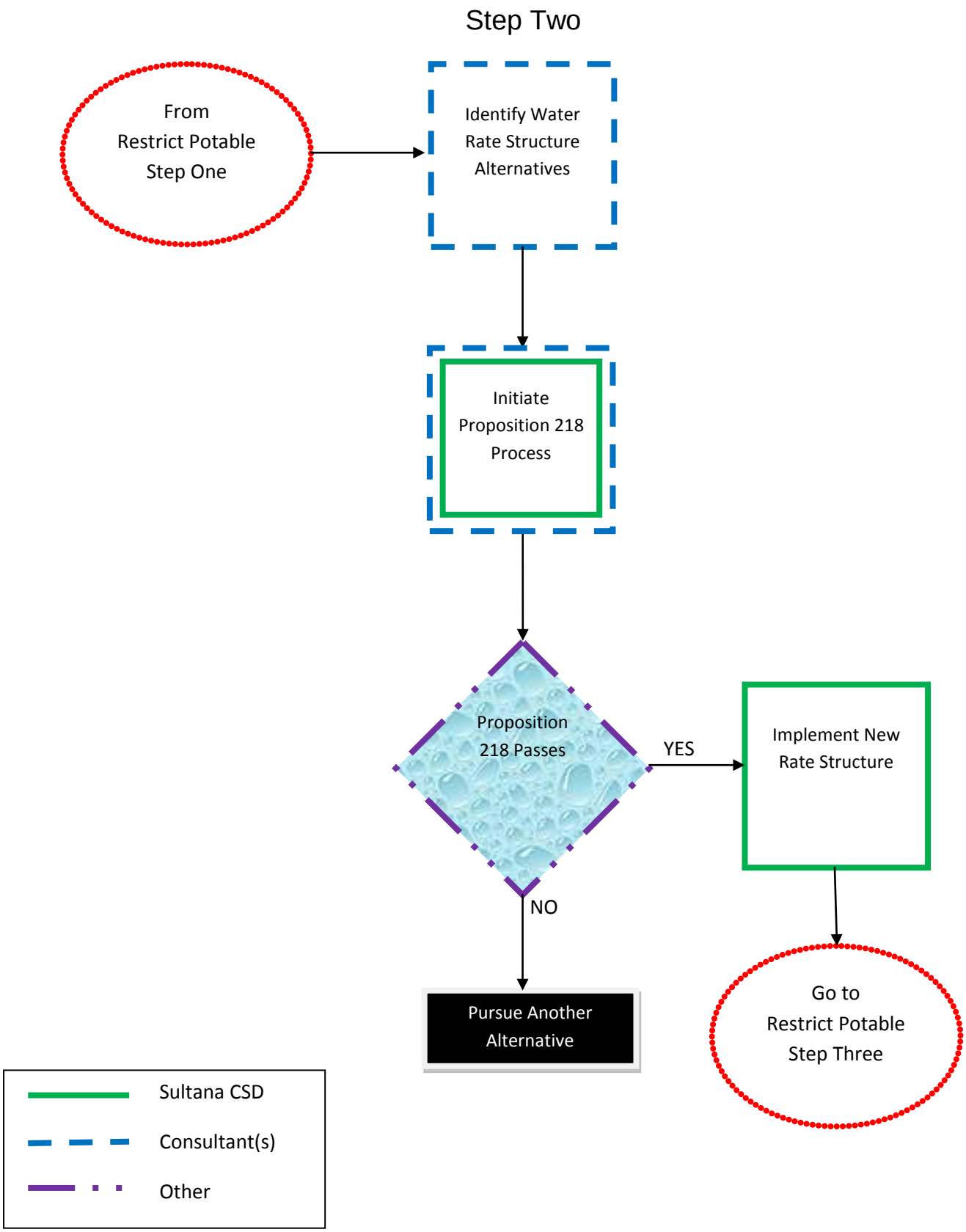
Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step One

Place a meter at the service for the school and other large users.

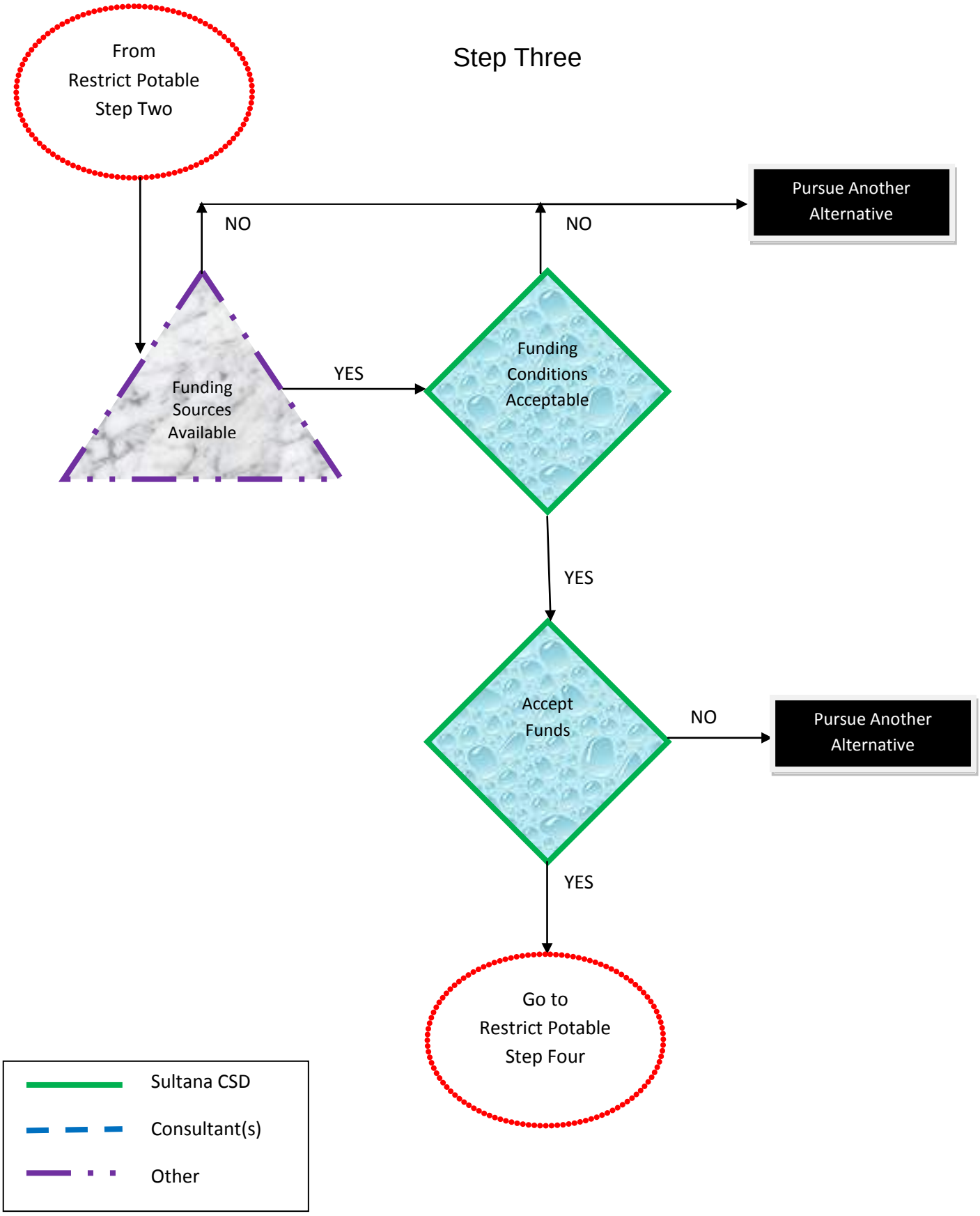
Sultana CSD

Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation



Sultana CSD

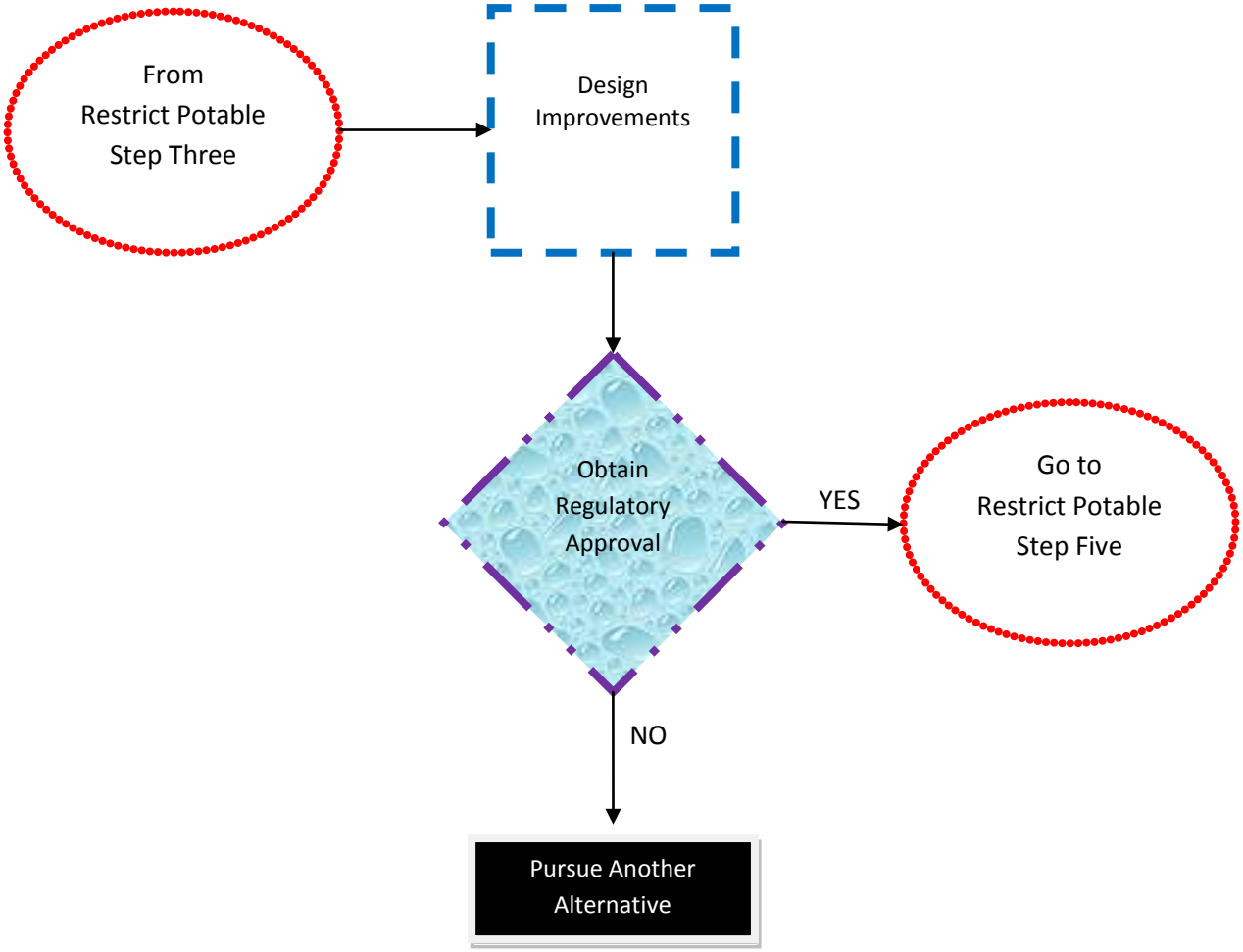
Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

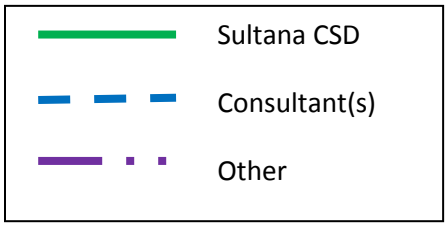


Sultana CSD

Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step Four

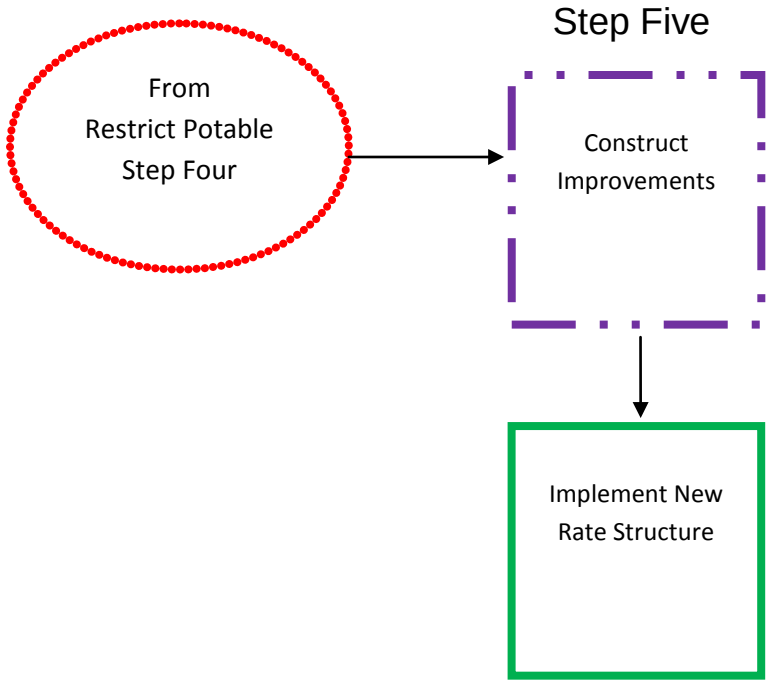


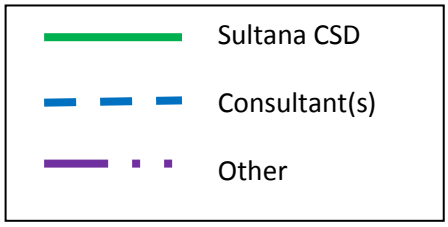


Sultana CSD

Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

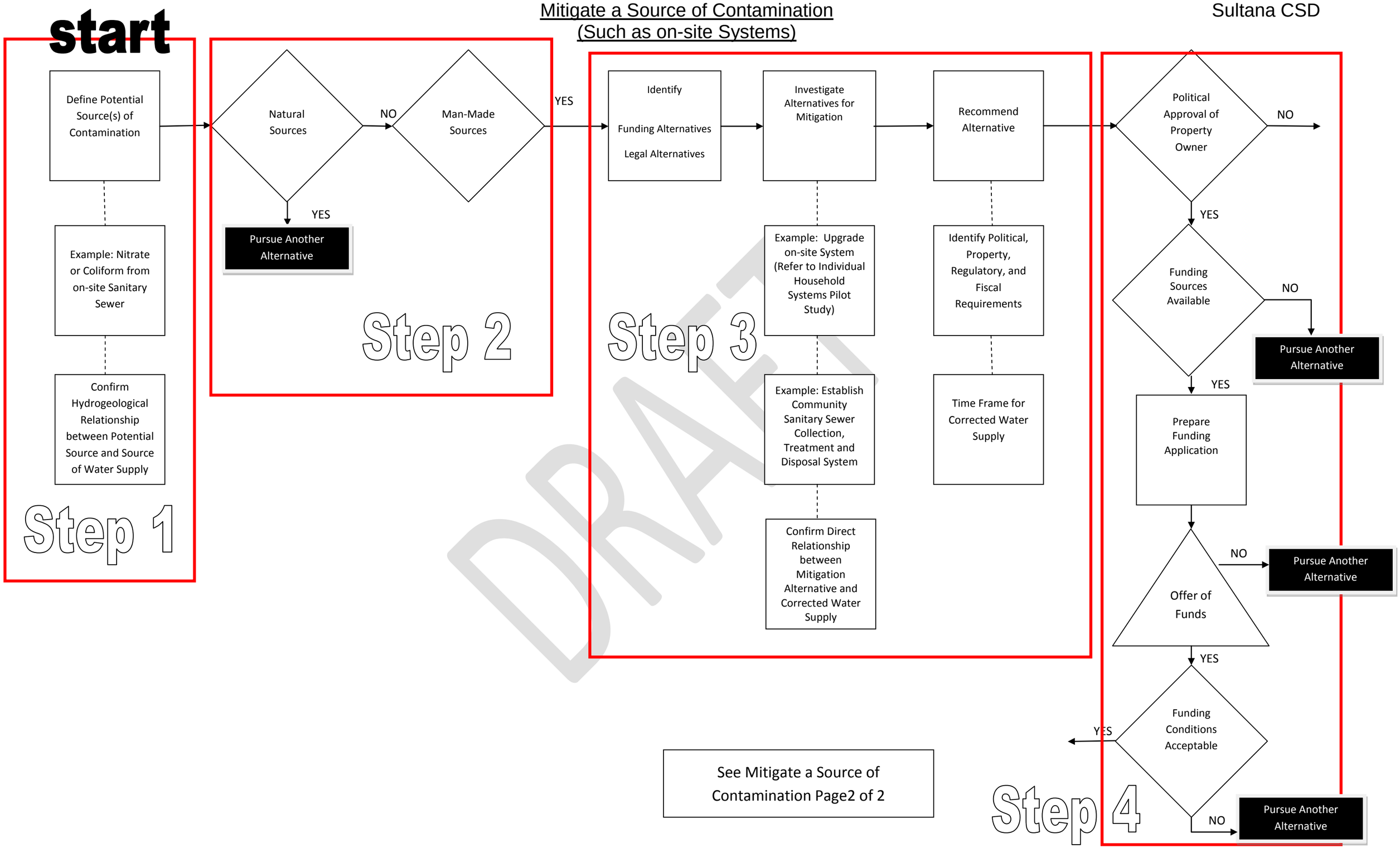
Step Five





Mitigate a Source of Contamination
(Such as on-site Systems)

Sultana CSD



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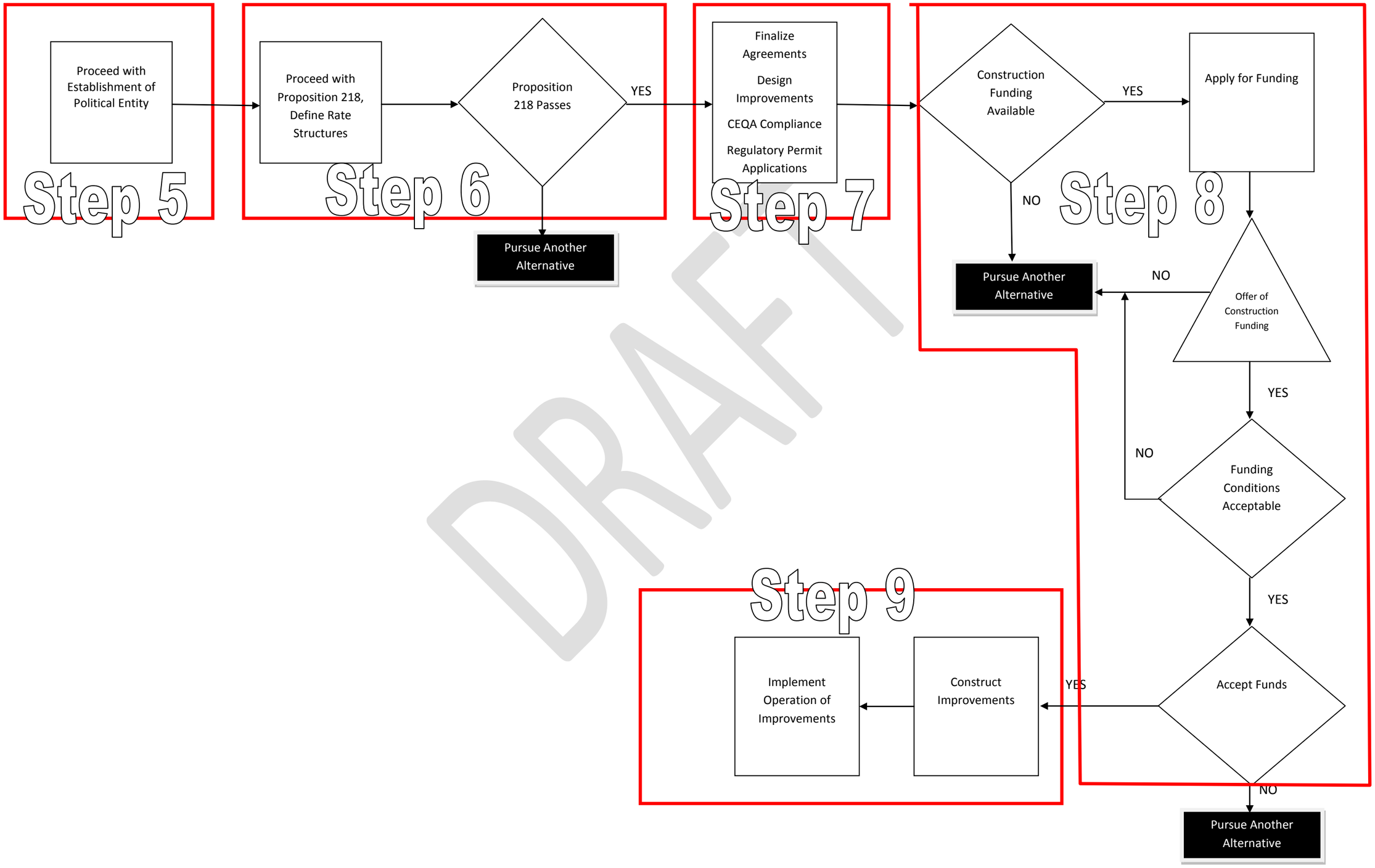
See Mitigate a Source of Contamination Page 1 of 2

Mitigate a Source of Contamination (Such as on-site Systems)



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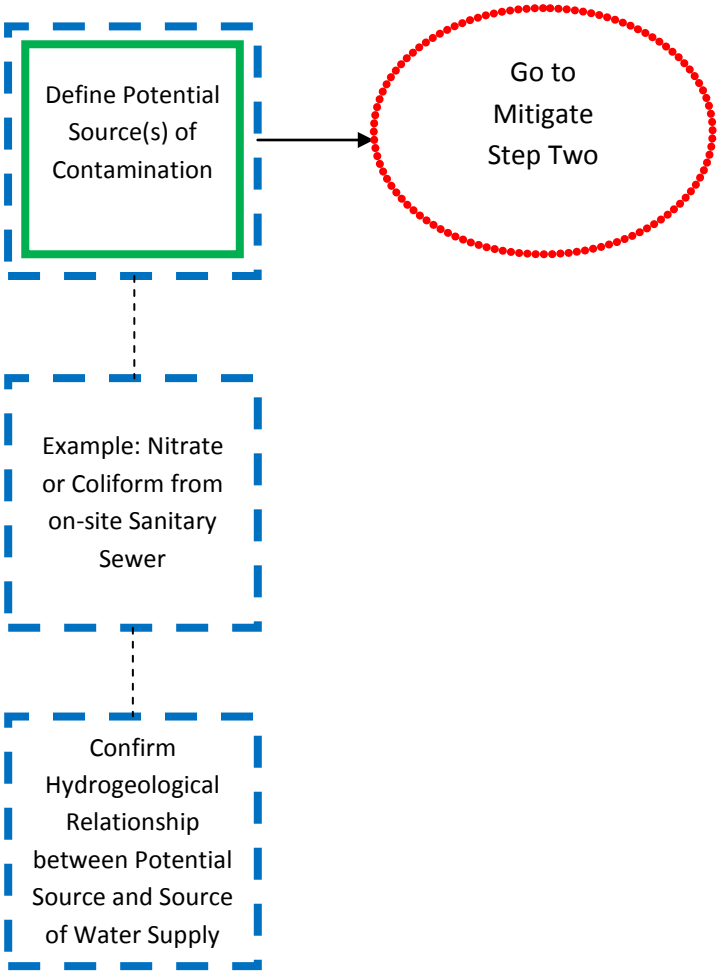
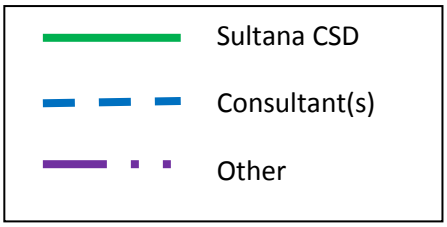
Sultana CSD

Mitigate a Source of Contamination

Step 1

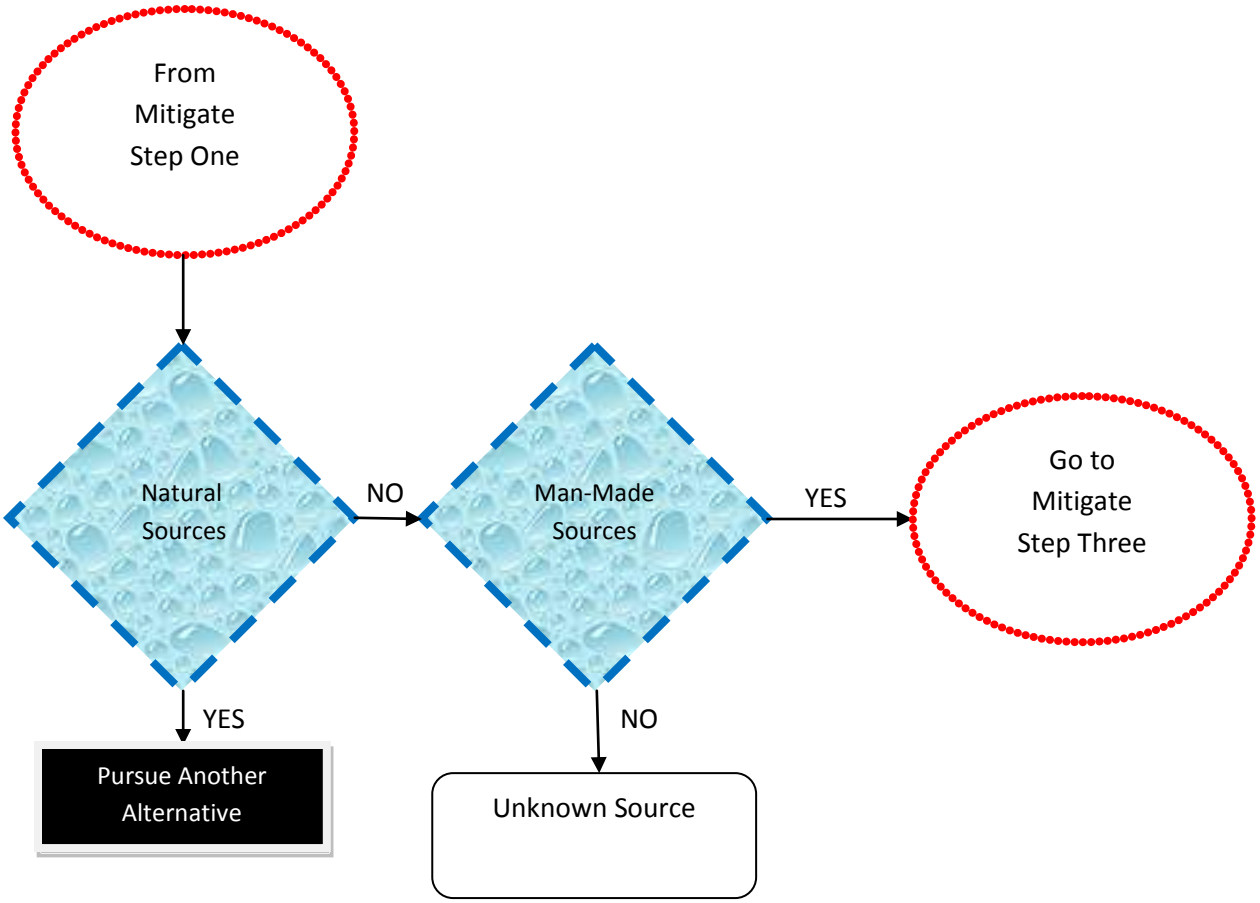


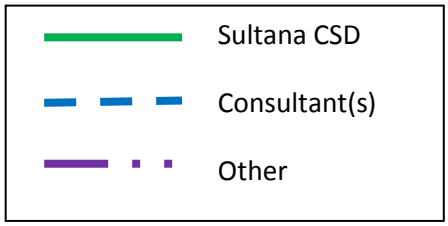


Sultana CSD

Mitigate a Source of Contamination

Step 2

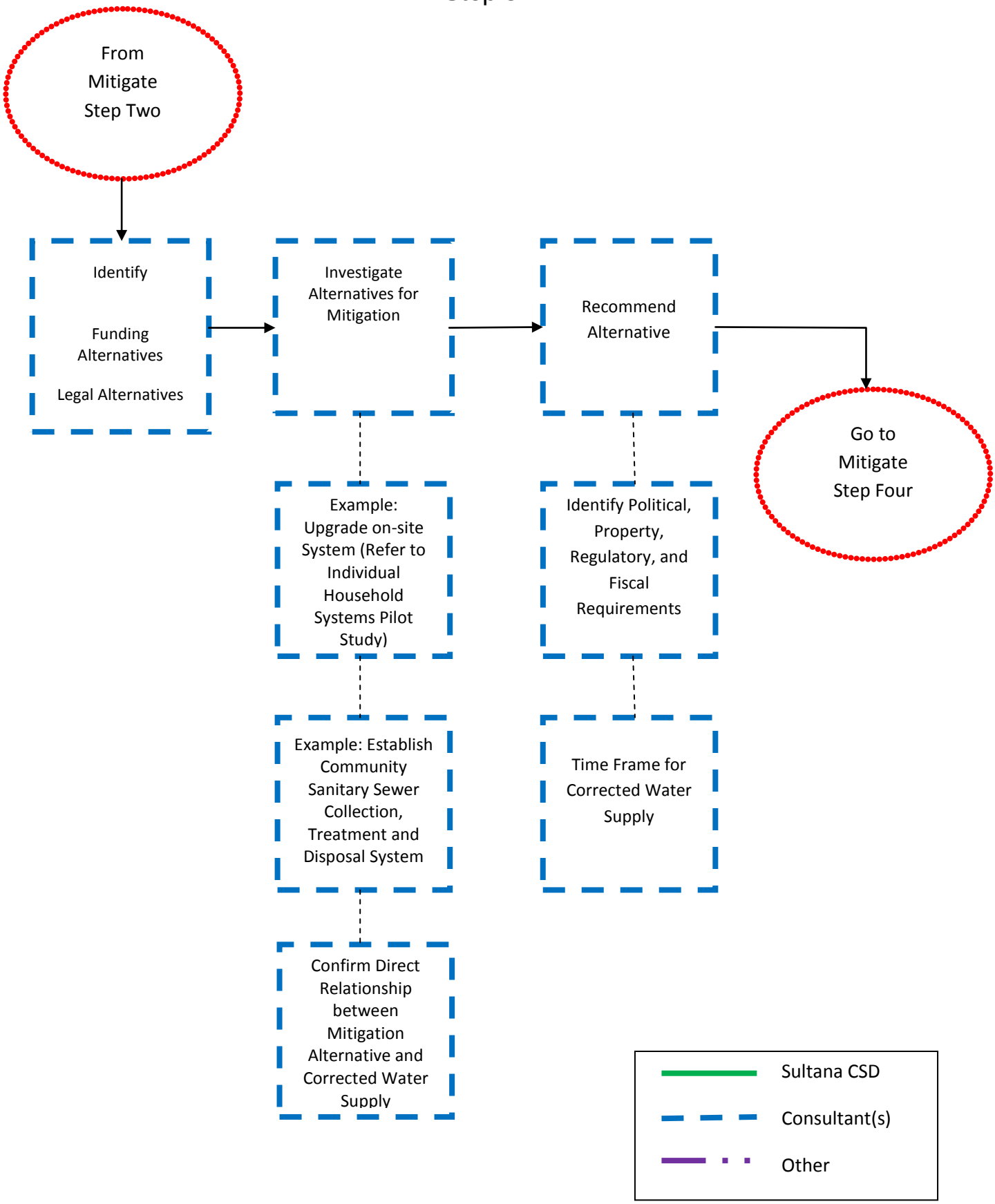




Sultana CSD

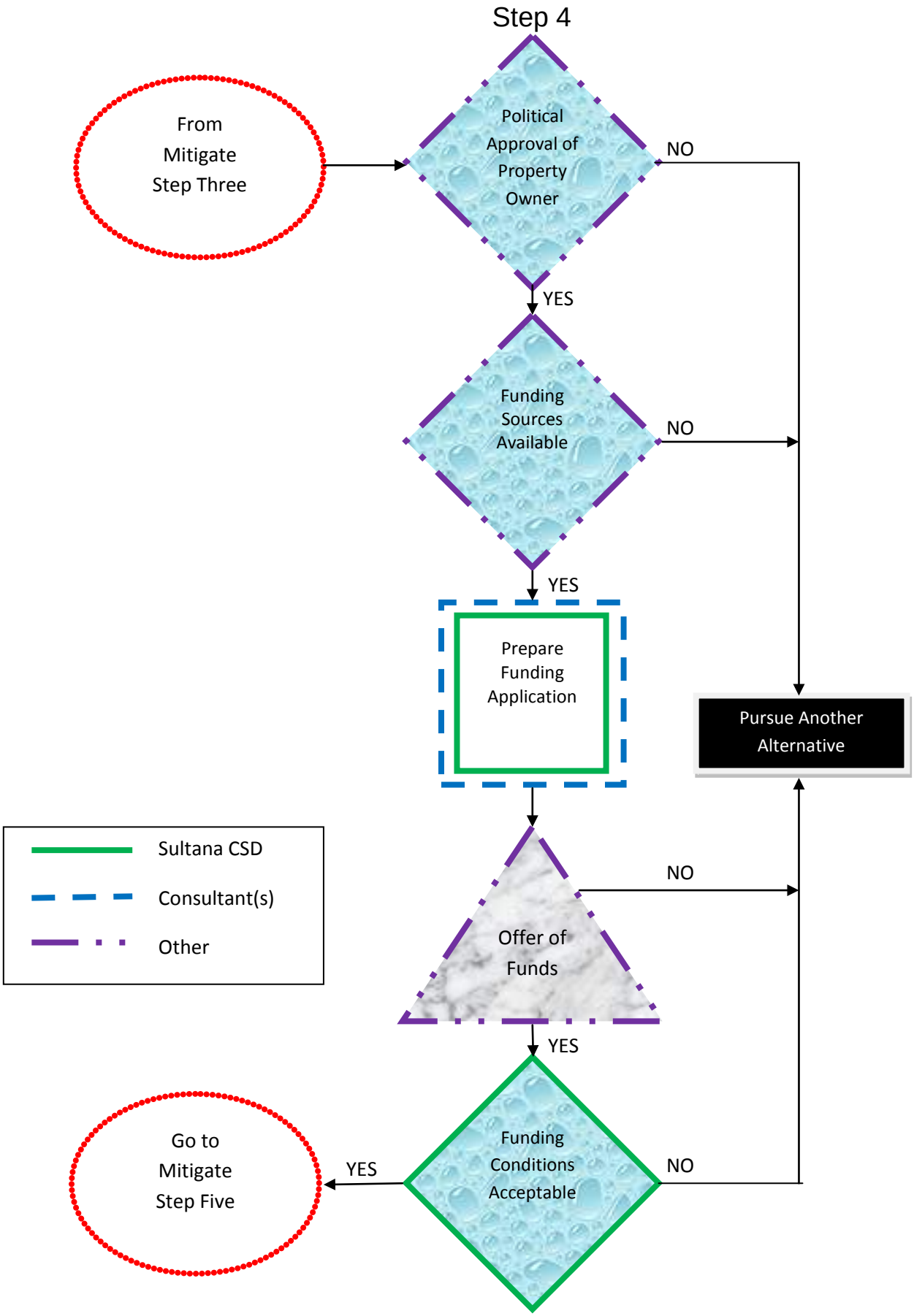
Mitigate a Source of Contamination

Step 3



Sultana CSD

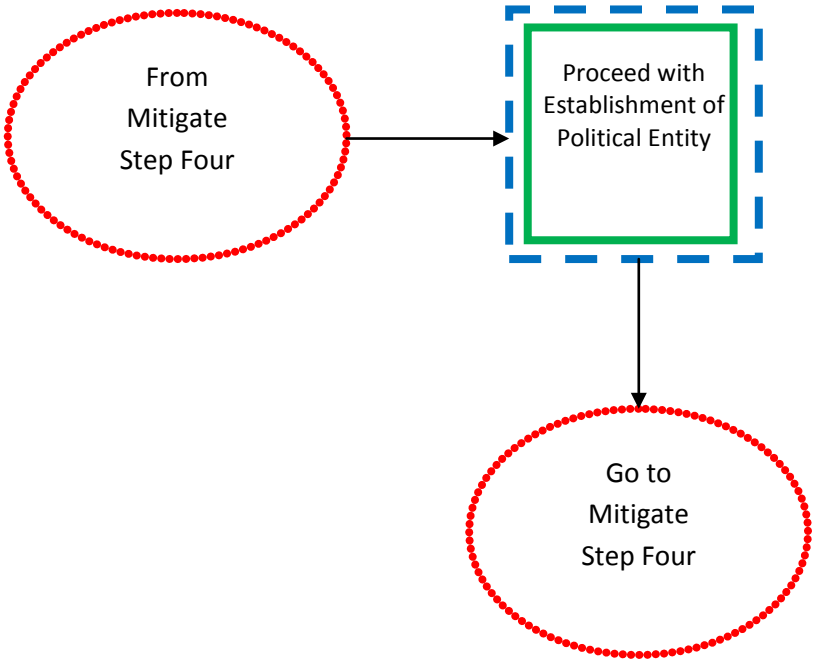
Mitigate a Source of Contamination

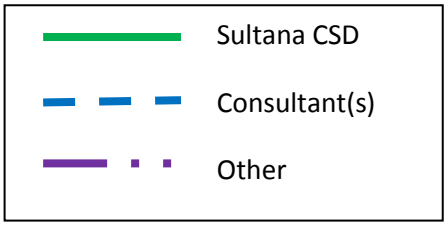


Sultana CSD

Mitigate a Source of Contamination

Step 5

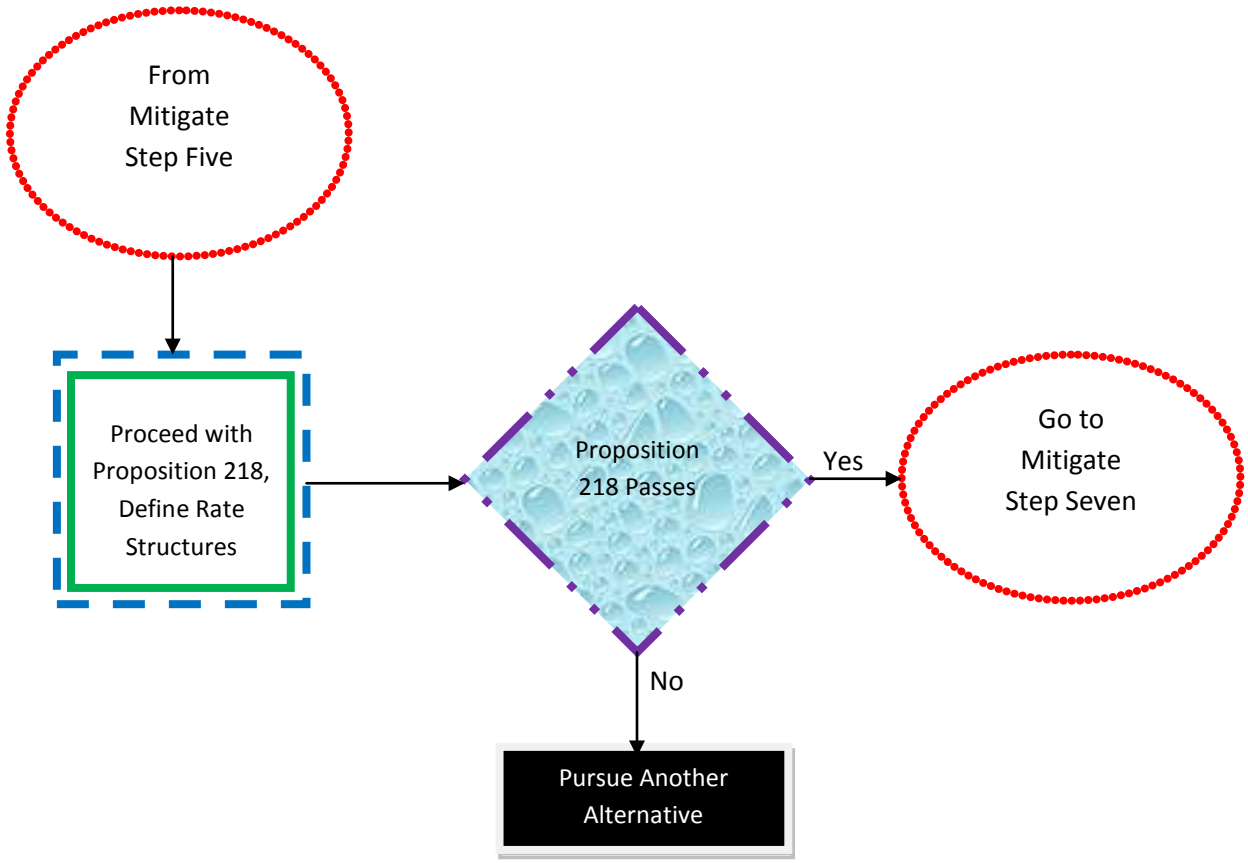


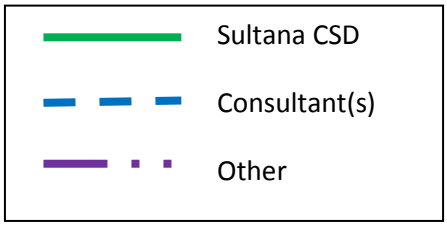


Sultana CSD

Mitigate a Source of Contamination

Step 6

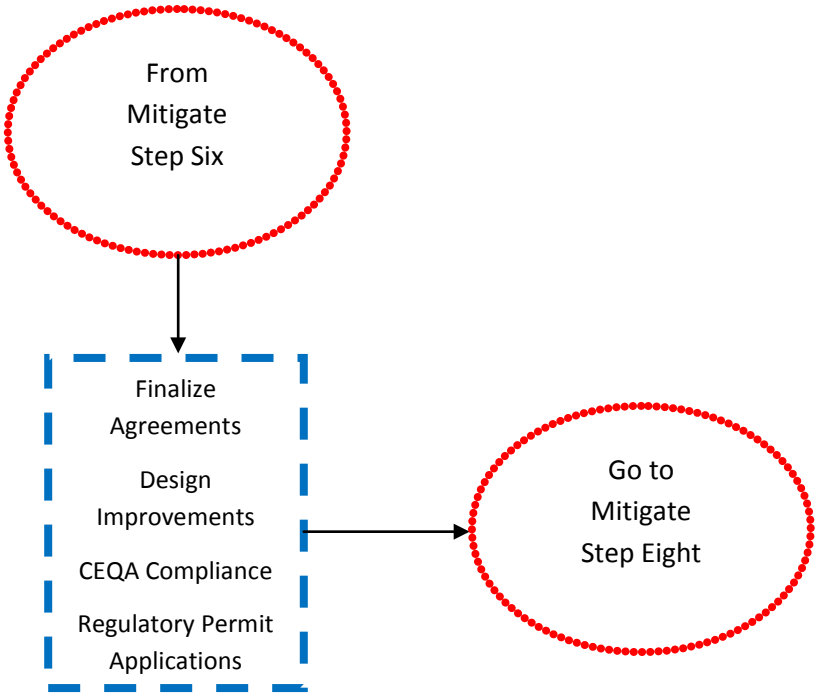


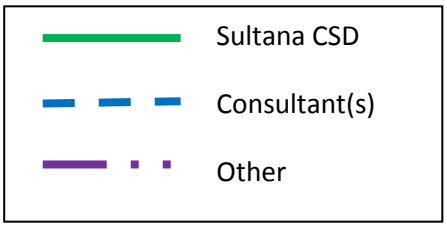


Sultana CSD

Mitigate a Source of Contamination

Step 7

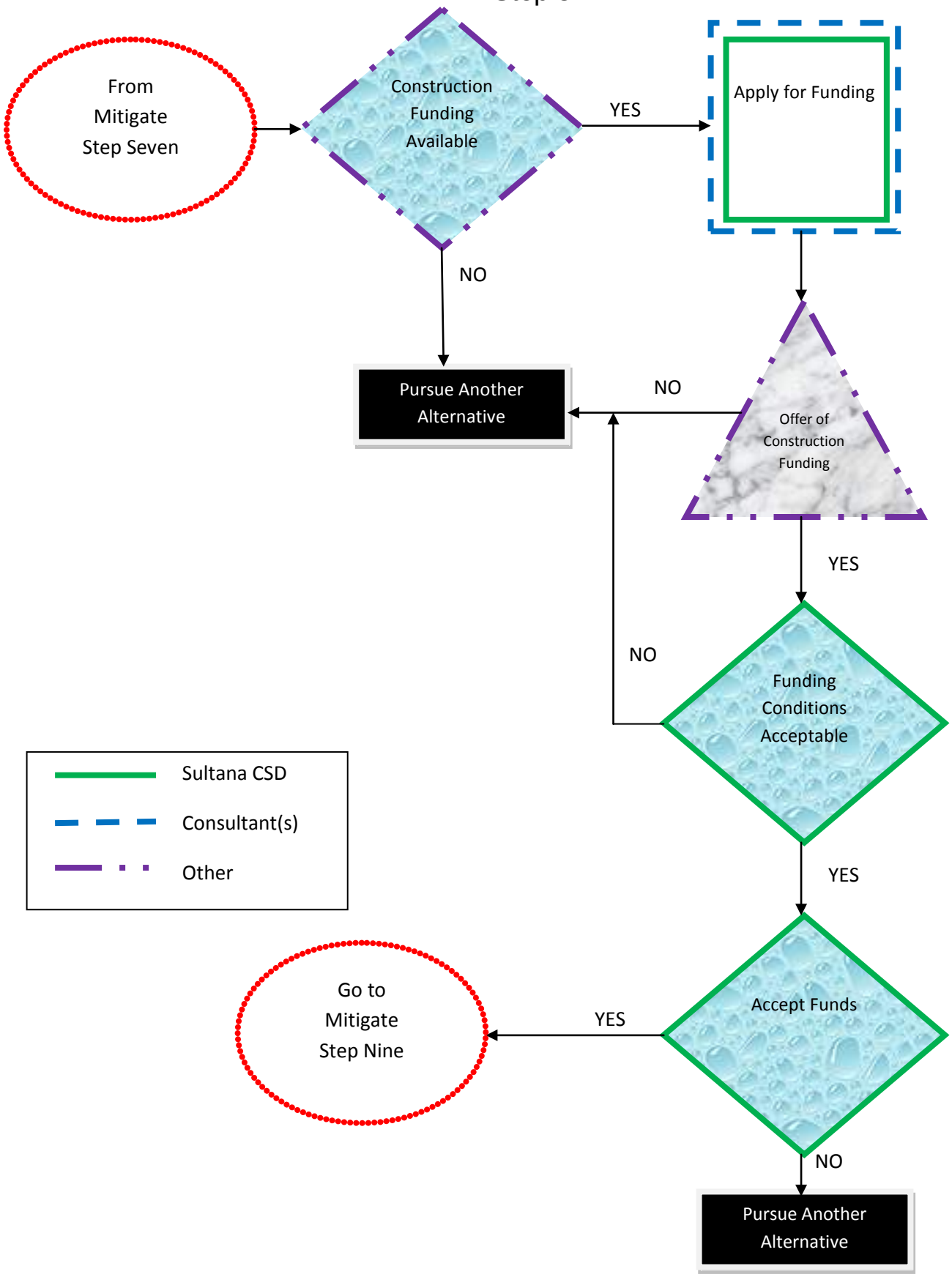




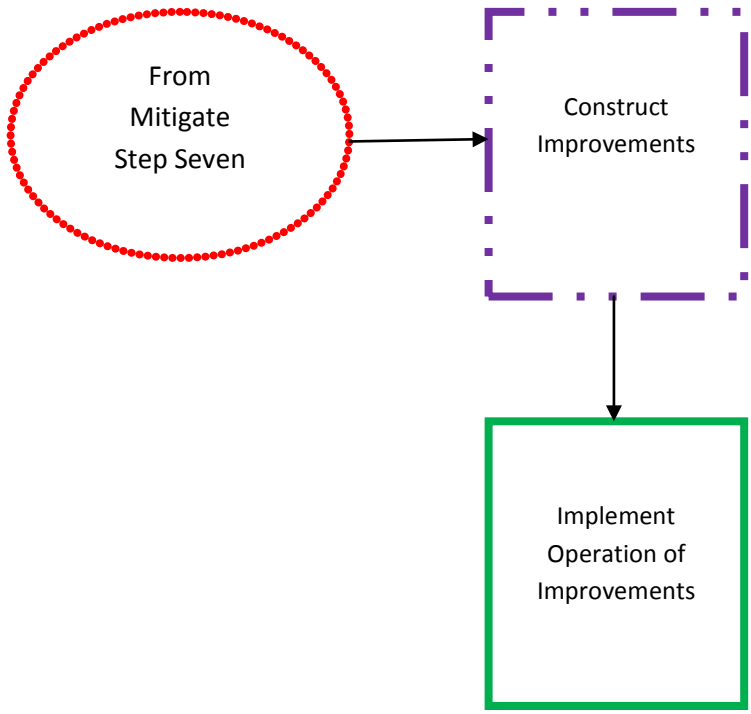
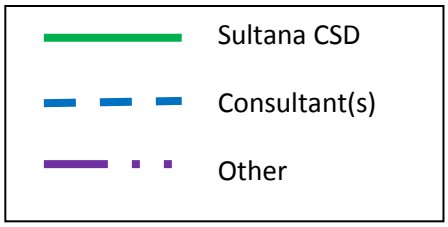
Sultana CSD

Mitigate a Source of Contamination

Step 8



Sultana CSD

Mitigate a Source of Contamination

Step 9