

Appendix J

Ivanhoe PUD Community Review

Ivanhoe PUD Community Review

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8 COMMUNITY PILOT PROJECTS

Evaluation of Potential Community Pilot Projects

The goal of the community review process was to further evaluate and perform a specific pilot study review of several communities that face water supply challenges in order to ground truth the potential solutions identified and to help develop a roadmap to implement applicable alternative solutions. The roadmap that is developed with the assistance of the community review process will be useful to guide other communities considering the same types of solutions.

For each pilot study, a Pilot Project Stakeholder Advisory Group (PSAG) was formed to provide review of the pilot study, and advise on potential communities to provide outreach efforts as part of a community review process. Members of the PSAG for the New Source pilot study included representatives from CDPH, DWR, Central Valley RWQCB, Tulare County, Fresno County, Kings County, Kern County, Tulare County LAFCo, USDA, Rural Community Assistance Corporation (RCAC), California Rural Legal Assistance Foundation (CRLAF), United Way, as well as various water districts and community representatives.

The community review process involved conducting community review meetings to ground truth findings, to learn about what the residents in the community review focus area need and want, and to assess their thoughts regarding the proposed alternatives presented within the draft pilot study. Participants in the community review process included board members, owners, operators, and residents of communities specifically selected as having potential to implement a New Source type alternative.

SECTION EIGHT**PILOT STUDY****8.2 Ivanhoe Community Pilot Project****8.2.1 Description of Ivanhoe Public Utility District**

Ivanhoe, an unincorporated community in Tulare County, is located in the northwest portion of the County, northeast of Visalia. The Ivanhoe PUD, formed in October 1951, has a primary function of providing domestic water and sanitary sewer service to residents within the community. Domestic water and sanitary sewer collection, treatment, and disposal are the primary services provided by the Ivanhoe PUD that are subject to a MSR.

Ivanhoe is located along State Route (SR) 216 approximately 7 1/2 miles northeast of downtown Visalia. The community is rectangular in shape and is bisected in a northwest-southeasterly direction by the San Joaquin Valley railroad tracks. North-south railroad crossings exist along Road 156, Road 159, and Road 160 (Depot Drive). East-west railroad crossings exist along Avenue 332, Avenue 330, and SR 216. Ivanhoe is an agriculturally oriented service community surrounded on all sides by lands in agricultural production, scattered rural residential uses and vacant land.

Water System Description

The Ivanhoe PUD is responsible for providing domestic water service within the District's Boundary. Ivanhoe's water supply is derived from five deep underground wells that pump at a consistent water level between 250 and 350 feet. According to District staff, the five wells provide water supply requiring no chlorination or treatment. District staff indicated that the production capacity of the wells ranges between 360 and 950 gallons per minute (gpm) and that the five wells have a total maximum production capacity of approximately 3,091 gpm. Wells are located throughout the community at locations identified below.

- Well No. 1 – Southeast corner of the Azalea Avenue and Manzanita Road intersection
- Well No. 2 – Southeast corner of the Fuchsia Avenue and Manzanita Road intersection
- Well No. 3 – Northwest corner of the Avenue 332 and Road 160 intersection (closed)
- Well No. 4 – Northwest corner of the Jasmine Avenue and Road 158 intersection
- Well No. 5 – East of the Aspen Avenue and Manzanita Road intersection
- Well No. 6 – Northeast corner of the Road 156 and Avenue 330 intersection
- Well No. 7 – East of the Lantana Avenue and Road 160 intersection
- Well No. 8 – Southwest of the intersection of Grove St. and Avenue 327

As previously indicated, only five of the eight wells are in operation, as Well No. 3 was lost in 1990 after DBCP contamination (from grape chemicals) was found. The loss of the well resulted in an \$800,000 settlement being awarded to the District. The District indicated that the community water system (as of August 2004) supports 1,114 single and multi-family residential connections. The District was unsure exactly how many commercial connections were on the system, but estimated that there is approximately

SECTION EIGHT**PILOT STUDY**

1,200 total connections to the system. The Ivanhoe PUD water system has been fully metered since 1991. Since then the District has billed customers based upon a metered usage. Water consumption data indicated that there was an immediate decrease in domestic water usage as a result of metering.

Wastewater System Description

The Ivanhoe PUD is also responsible for providing sanitary sewer collection, treatment, and disposal services to residents within its Boundary. The District indicated that as of August 2004 there were 1,114 single and multi-family residential connections to the sewer system managed by the Ivanhoe PUD. District staff estimated that there are approximately 1,200 total connections to the system. Raw sewage is collected in a series of collection pipes ranging in size from 4 to 15 inches (including Vitrified Clay Pipe and Polyvinyl Chloride Pipe) and then transported to a WWTF that is owned and operated by the Ivanhoe PUD.

The District operates a WWTF located southwest of the community west of the Avenue 324/Road 156 intersection. The WWTF is operated under the provisions of Order No. 98-090 issued by the California Regional Water Quality Control Board (RWQCB). The District's WWTF provides secondary treatment of wastewater via a clarigester, three stabilization ponds, and a sludge drying bed. Treated effluent from the third stabilization pond is recycled on 61.2 acres of pasture land south of the WWTF, which is leased by the District for grazing of non-milking cattle. Industrial developments discharging to the WWTF are primarily citrus packing plants. Order No. 98-090 prescribes that the monthly average daily discharge shall not exceed 0.56 MGD.

Financial

Reviewing the District's budget for the current and previous fiscal years indicates that the District is financially stable with regard to its sewer and water funds. The District's annual revenues cover the annual operating expenses of the District including reserve allocations and contingency appropriations.

The District generally requires new development projects to construct the necessary infrastructure to serve their development. A program of developer obligated infrastructure improvements provides for the installation of physical infrastructure to serve development sites and therefore relieves the financial obligation of the District. Developers are also required to pay fees for rights to water and sewer capacity, which are ultimately used by the District for capital capacity improvements including, but not limited to, additional wells, storage facilities, or capital WWTF improvements. These fees are set by the Board of Directors by resolution, and are allocated to a restricted reserve account.

Rates

Water rates consist of a base of \$16.75 plus \$0.49/100 cf per month. The average monthly water rates lie between \$20 and \$25 per month.

Fees

SECTION EIGHT**PILOT STUDY**

The District requires development projects to pay fees for water and sewer capacity rights, which are currently set at \$1,700 and \$1,890 per EDU, respectively.

Previous Funding Applications

Ivanhoe PUD has submitted (July 6, 2011) an application to the CDPH Proposition 84 Funding Program for the purposes of constructing a Test Well Project (Well No. 9).

A copy of the Application is included in **Appendix J**.

8.2.2 Challenges Faced by Ivanhoe Public Utility District

The challenges faced by the Ivanhoe Public Utility District include:

- Disadvantaged Community
- Increasing Nitrate concentrations in Wells, presence of DBCP, TCP
- Undersized water distribution mains in a portion of the District
- Some water distribution valves do not close completely
- No water storage
- Although information available from the Department of Water Resources indicate that the standing water elevation of agricultural wells in the vicinity of Ivanhoe have declined by approximately 50 feet since the mid 1980's, the District indicated that standing water levels of the municipal wells have not been significantly impacted. It is recommended that in light of the current drought, the District monitor the water levels of the water supply wells on a regular basis.

8.2.3 Goals of the Ivanhoe Community Pilot Project

The goals of the Ivanhoe Community Pilot Project included:

- Provide information to the community participants about the goals and objectives of the Tulare Lake Basin DAC study and the New Source Pilot Study.
- Develop an understanding of the local water and wastewater challenges faced by the community.
- Provide preliminary alternative solutions identified in the New Sources pilot study.
- Obtain feedback on the preliminary alternative solutions identified.
- Provide recommendations to the community for future actions to consider.
- Develop Decision Trees that represent past and potential actions for Ivanhoe PUD to consider.

8.2.4 Description of the Ivanhoe Community Pilot ProjectAuthorization to Include Ivanhoe PUD in the DAC Study

SECTION EIGHT**PILOT STUDY**

Michael Taylor of Provost & Pritchard and Maria Herrera of Community Water Center attended a regularly scheduled Board Meeting of the Ivanhoe Public Utility District on November 4, 2013. Mr. Taylor briefly described the Disadvantaged Community Study that was being conducted and requested the Ivanhoe Public Utility District authorize its inclusion in the Study through the Community Pilot Project process. The Board of Directors of the Ivanhoe Public Utility District authorized the participation.

Pilot Project Activities Summary

1. Obtain and review records
2. Meet with District and operations staff
3. Discussions with CDPH – regulatory and funding
4. Review potential of physical consolidation with Cal Water (City of Visalia)
5. Review past funding application
6. Prepare draft Decision Trees
7. Conduct a Community Review Meeting
8. Summarize activities
9. Provide recommendations for District consideration

Community Review Meeting

A community meeting was held on February 12, 2014 at the Ivanhoe Public Utility District office (minutes of the meeting are included in **Appendix J**). The meeting was attended by one Ivanhoe PUD Board Member, residents of the Ivanhoe community, Community Water Center, and Provost & Pritchard. The meeting was organized and facilitated by Maria Herrera and Susana DeAnda of Community Water Center. Michael Taylor of Provost & Pritchard Consulting Group provided information on the overall Tulare Lake Basin Disadvantaged Community Study, a general description of Decision Trees, and the alternatives that may be viable for Ivanhoe to consider to address its water supply challenges. All attendees were encouraged to ask questions and provide any additional information for the study.

Each of the nine (9) generic water supply alternatives were described and discussed regarding the potential relevance to the community of Ivanhoe.

Physical Consolidation

The potential of a physical connection to the City of Visalia (Cal Water) was reviewed during this process. The Urban Area Boundary of the City of Visalia encroaches to the Ivanhoe WWTP. However, an extension of the Cal Water system from Houston Avenue would require approximately 4 miles of pipeline and a crossing of the St. Johns River. If a connection was constructed, it would be recommended that a water storage tank be included in the construction to allow for delivery of water to Ivanhoe during off peak periods. The capital cost of a physical connection to the City of Visalia system would significantly exceed the capital cost of constructing a new water supply well for the community of Ivanhoe.

It was apparent during the community review meeting that Ivanhoe residents would prefer to explore the construction of a new water supply well for Ivanhoe prior to other

SECTION EIGHT**PILOT STUDY**

alternatives such as consolidation with the City of Visalia system. Primary considerations include potential loss of local control and the uncertainty of future water rates from a private water company.

An Exhibit that includes the Urban Development Boundary for the City of Visalia is included as **Appendix J**.

Exchanges/Contracting for Surface Water or other sources

The Ivanhoe Public Utility District does not presently own surface water rights. Although the Ivanhoe Irrigation District is adjacent to the Ivanhoe Public Utility District, the requirements of purchasing surface water, contracting for conveyance to the District, constructing a surface water treatment plant, and operation of a surface water treatment plant are extensive and do not warrant further consideration at this time.

Recharge of Local Area

A review of the Ivanhoe Irrigation District Water Conservation Plan (1998) confirms that the Ivanhoe Irrigation District uses groundwater recharge areas when the U.S. Bureau of Reclamation make non-storable water available. The Ivanhoe Public Utility District is located adjacent to the Ivanhoe Irrigation District and therefore benefits from said groundwater recharge activities.

Regional Facility

Ivanhoe PUD is not located near other communities facing similar challenges.

New Water Supply Well

The Ivanhoe PUD recently (2013) constructed a new water supply well (Well No. 8). Ivanhoe PUD has determined that the near term preferred alternative is to pursue the construction of a new water supply well. An application for financial assistance to perform the hydrogeologic study, construct up to two (2) test wells, and define design criteria for a new water supply well had been submitted to the CDPH in 2011. A site for the test well has been defined.

Water Treatment Facility

Install ion exchange to remove nitrates in the raw water. Based on the existing water quality data, the ion exchange process would be the best option for nitrate removal in Ivanhoe. The ion exchange process involves a special media that will remove nitrates from the water and store the nitrate in the media. When the media becomes incapable of removing any more nitrate, it must be regenerated. This regeneration is accomplished by pumping a concentrated salt solution (brine) through the media. This spent brine solution must be disposed of properly; either discharged to a wastewater treatment plant or hauled off site to a centralized brine treatment facility.

Pros – Water Treatment processes exist that can remove nitrates in the water regardless of nitrate concentrations in the raw water. Ion exchange is a relatively simple treatment process with no chemical addition or hazardous waste to dispose.

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Cons – A water treatment plant would require a supplement to the existing Water Supply Permit, additional testing and reporting requirements, and additional water operator certificate requirements. Sufficient property would be required for the treatment facilities. The capital cost and ongoing O&M costs may be too high for the customers. Capital costs may also require some indebtedness if a grant is not available for the capital costs. All Central Valley wastewater treatment plants have an electroconductivity (EC) limit. The brine discharged from an ion exchange process is very high in EC and may cause issues at the wastewater treatment plant. The cost of alternative brine disposal (part of the O&M costs) may be too high for the customers.

Blending

Blending of water may be an alternative to consider to mitigate the high nitrate concentrations in several of the District's water supply wells. Well No. 3 and Well No. 8 presently supply water that meets the regulatory limits for nitrate. Typical requirements of the CDPH would include achieving a blended nitrate concentration of less than 35 mg/l. Blending of the water would require construction of transmission mains from the wells that exceed nitrate limits to a water storage tank to be used as the blending site. Water from the potable supply wells would also be delivered to the blending tank in quantities that would achieve the necessary final nitrate concentration. Water would not be delivered from the water storage tank to the distribution system until testing confirmed the nitrate concentration was below the requirements.

It is noted that Well No. 3 is approximately 53 years old and only produces approximately 360 gpm.

If the District determined to pursue blending as a treatment alternative, the potential location(s) of a water storage tank site would need to be determined. Analysis would include the design criteria of the blending tank, design criteria of water transmission mains, an operational plan for the blending tank, capital cost, operational cost, availability of funding assistance, and a comparison of the benefits of blending to the construction of new potable water supply wells.

Conservation

Ivanhoe PUD presently utilizes water meters. The Ivanhoe PUD is presently reviewing the establishment of water conservation policies and/or public education associated with water conservation.

Restrict Potable Water Deliveries from Agricultural or Large Turf Irrigation

The Ivanhoe school presently owns and operates a private well for irrigation purposes. There are no other identified significant non potable water uses within the District.

Mitigate a Source of Contamination

This alternative does not apply to the circumstances of the Ivanhoe PUD, the source of nitrates may not be mitigated.

SECTION EIGHT**PILOT STUDY**

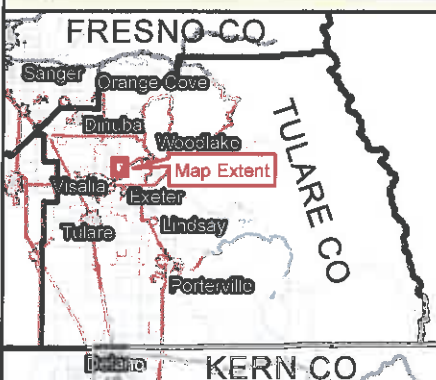
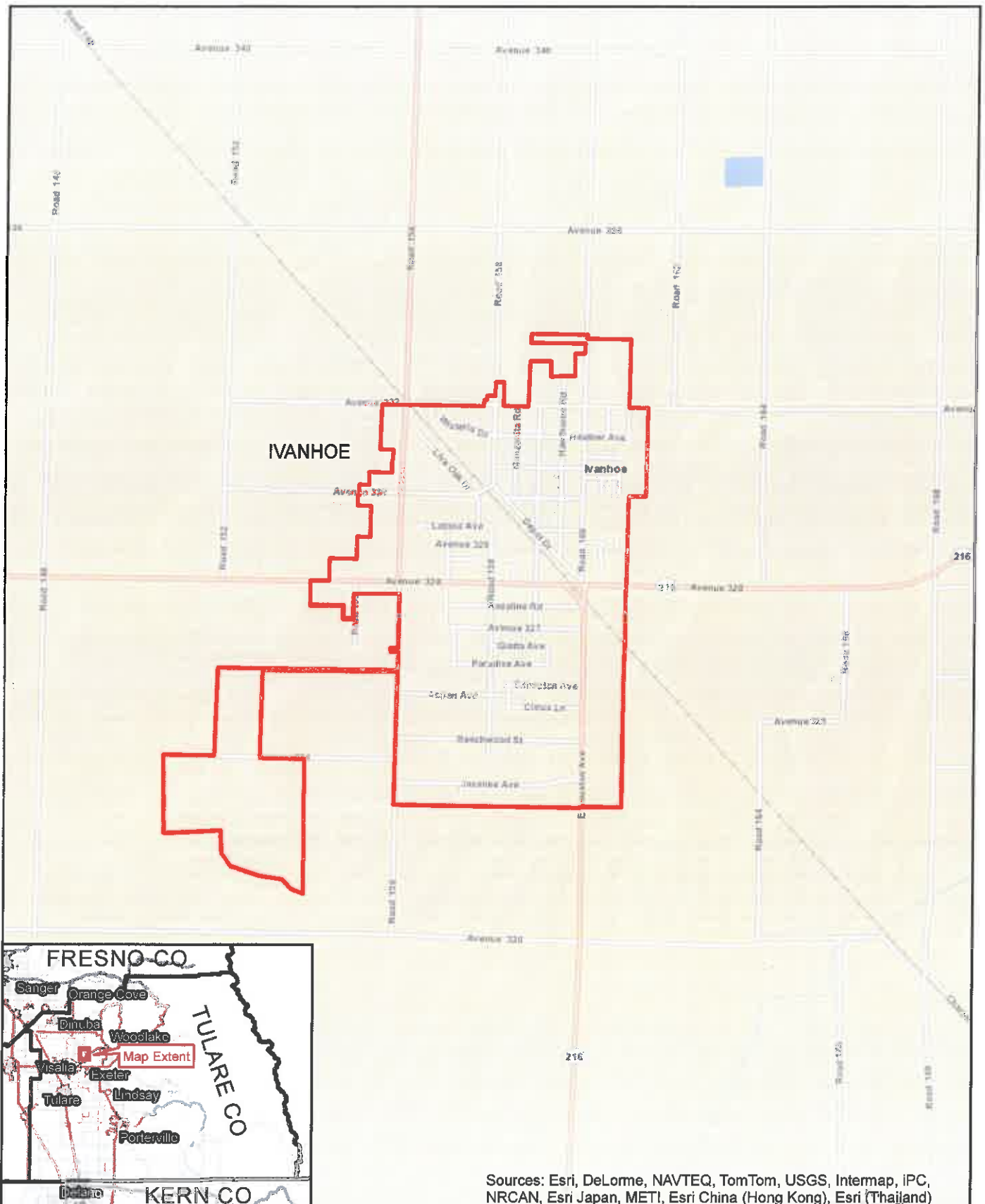
The contaminants identified as TCP and DBCP may be subject to legal action to receive compensation for damages sustained. The legal action may result in monetary compensation that may be used for the construction of new water supply wells that can avoid the contamination.

8.2.5 Recommended Future Actions and Schedule

1. Place Wells No. 2 and No. 7 as standby in the Water Supply Permit.
2. Update the Funding Application for a new water supply well with the additional consideration that the District does not have a sufficient water supply.
3. When funding becomes available, perform a hydrogeological study of the area to determine if potable water supply is available. Construct a test well to confirm the availability of sustainable potable water. Utilize the hydrogeological study to immediately explore the location for future well sites.
4. Proceed with funding and construction of a water supply well.
5. Consider the review of blending new water supply wells with either of the standby water supply wells for the purposes of achieving acceptable Nitrate levels. This review would include the review of potential water storage tank sites.
6. It is recommended that the District maintain interest in the Kaweah River Basin IRWMP as it may be available as a vehicle to utilize to apply for funding assistance for future water supply improvements.

Financial analysis of any proposed projects would need to evaluate affordability, revenue sources, estimated capital costs, estimated operation and maintenance costs, estimated debt service and proposed rate adjustments, if needed, and their impact on the community.

During the feasibility study and alternatives analysis it is important to provide information to the public through public meetings and presentations. It is important for the community to understand and be involved with any changes to their water and wastewater systems. Due to the large Spanish speaking population in the community, it is important to have materials translated into Spanish and have interpreters available at any public meetings. An informed community may be more likely to become involved in the process and have a constructive voice in determination of any recommended improvements.



0 0.25 0.5 Miles

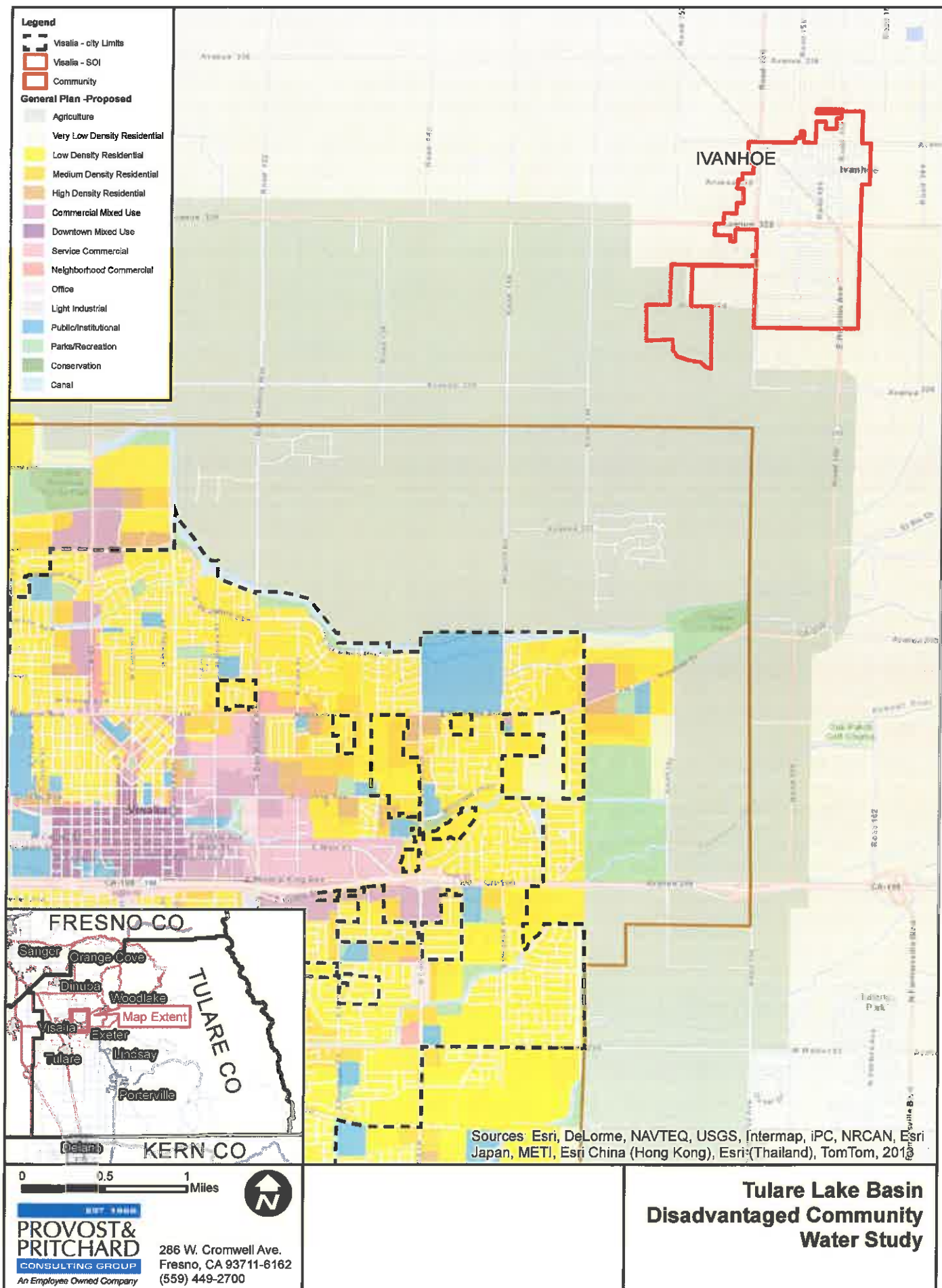
PROVOST & PRITCHARD
CONSULTING GROUP
An Employee Owned Company

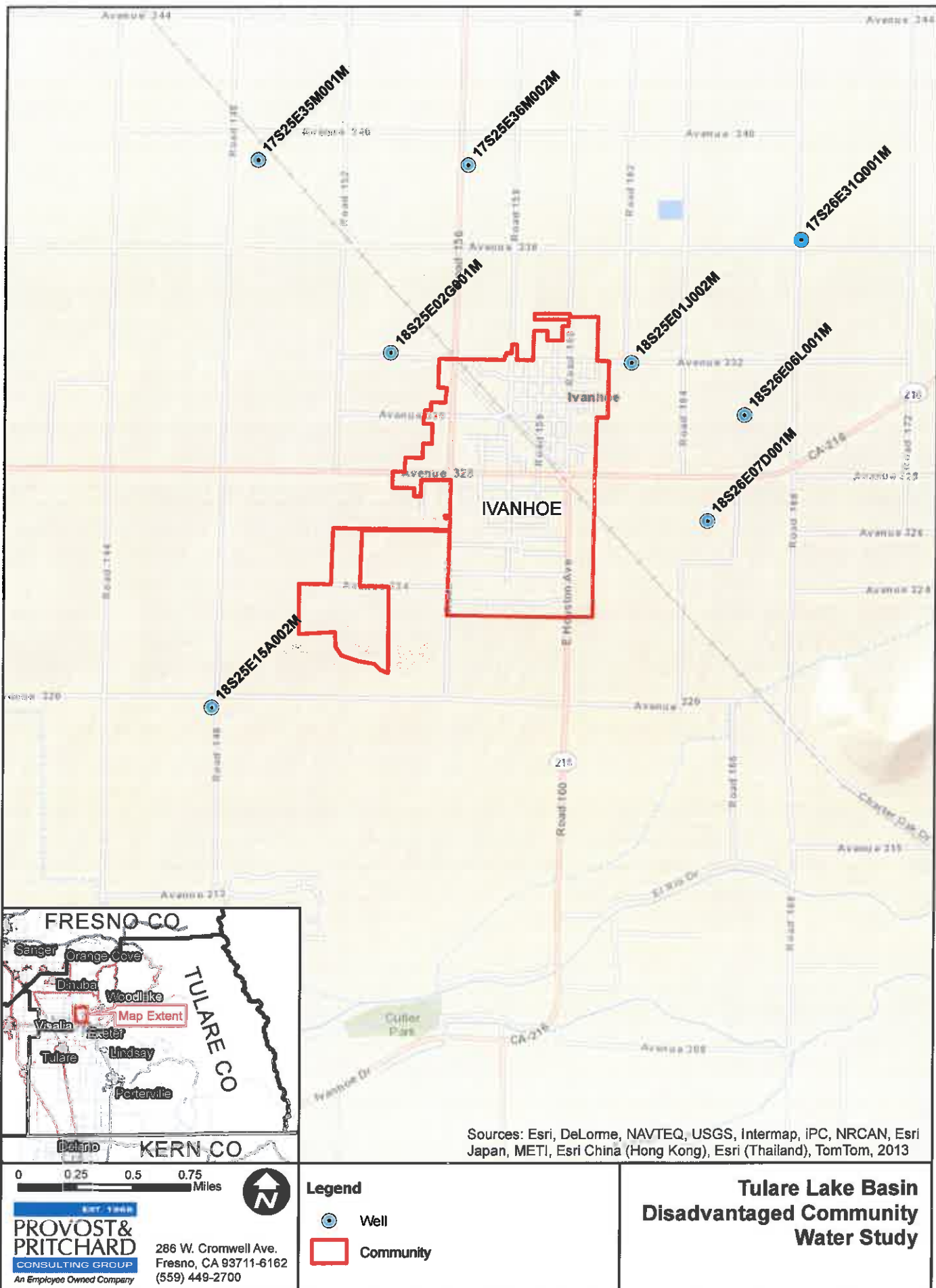
286 W. Cromwell Ave.
Fresno, CA 93711-6162
(559) 449-2700

Legend

Community

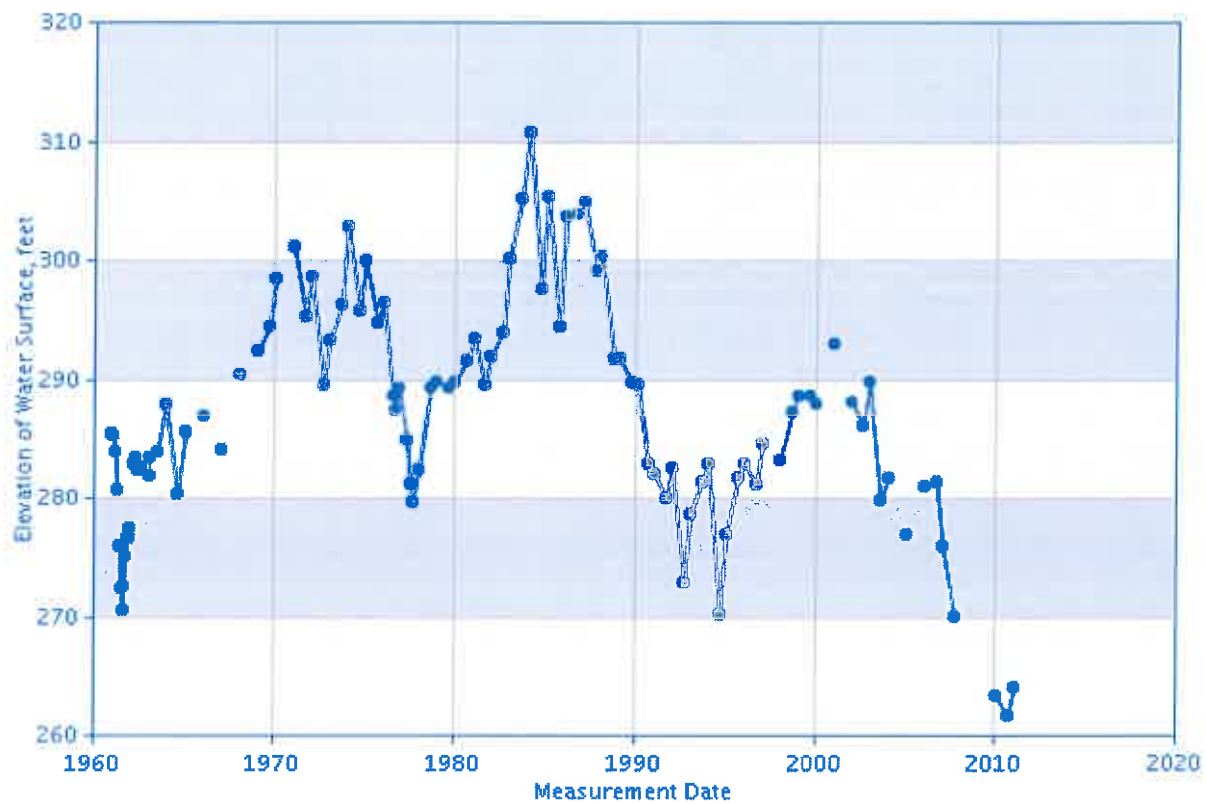
Tulare Lake Basin Disadvantaged Community Water Study



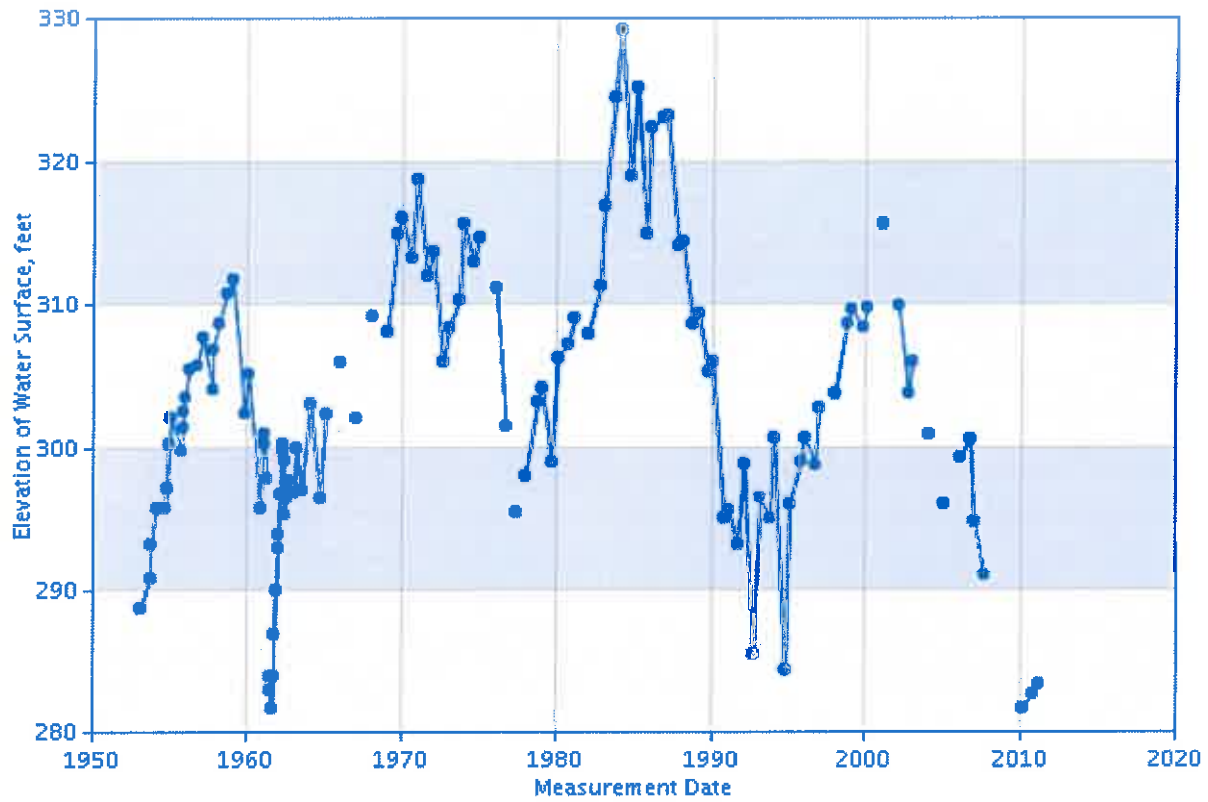


Groundwater surrounding Ivanhoe

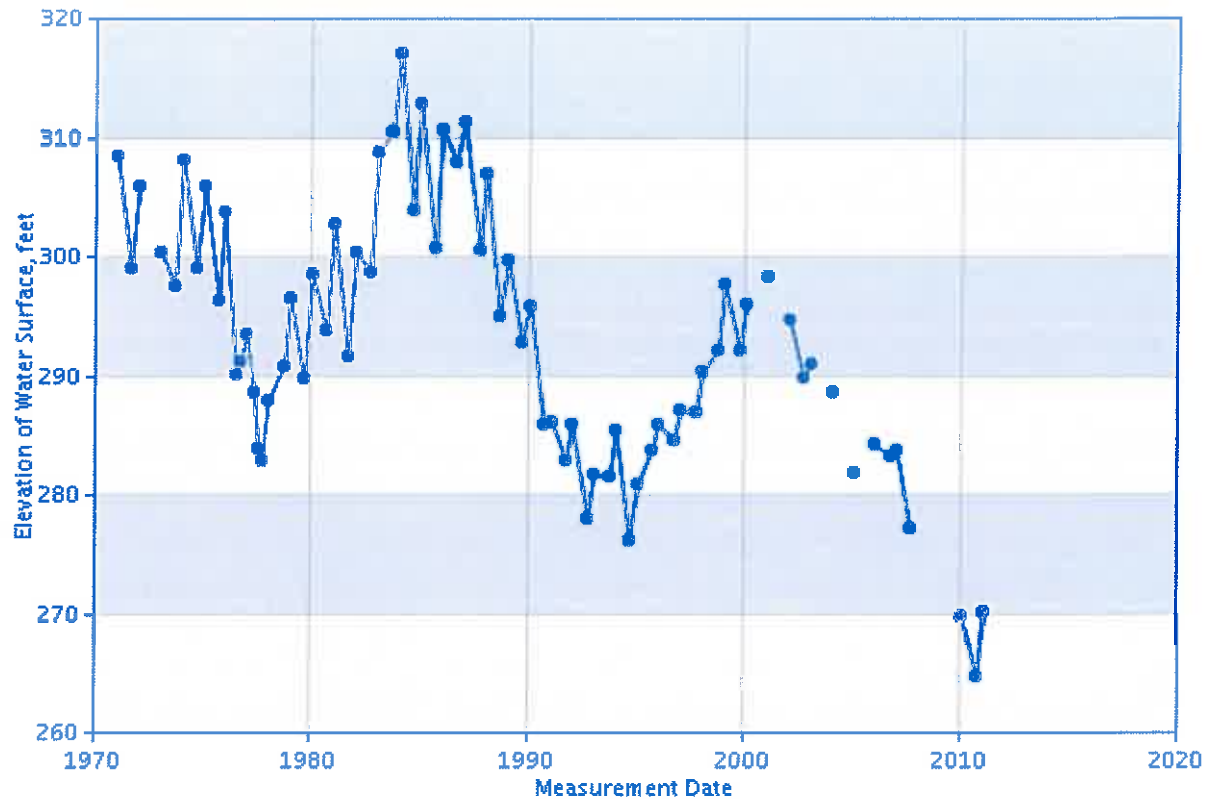
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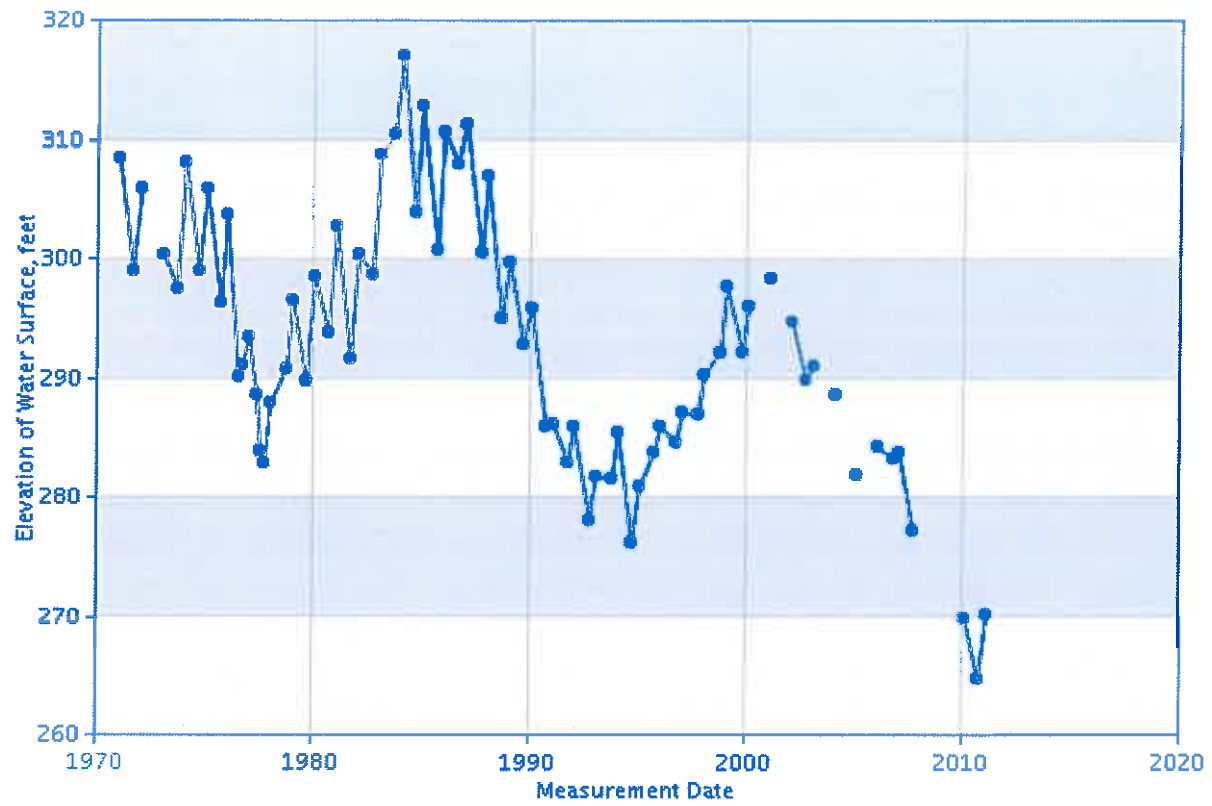
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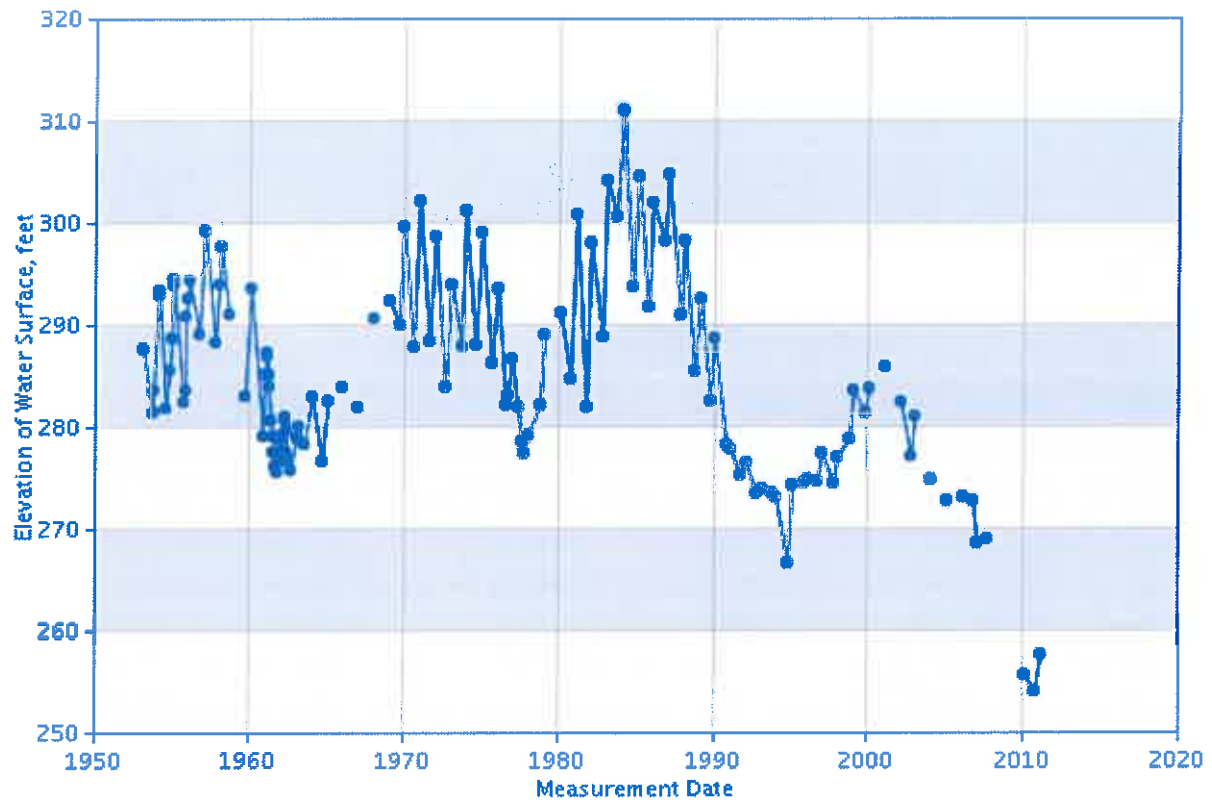
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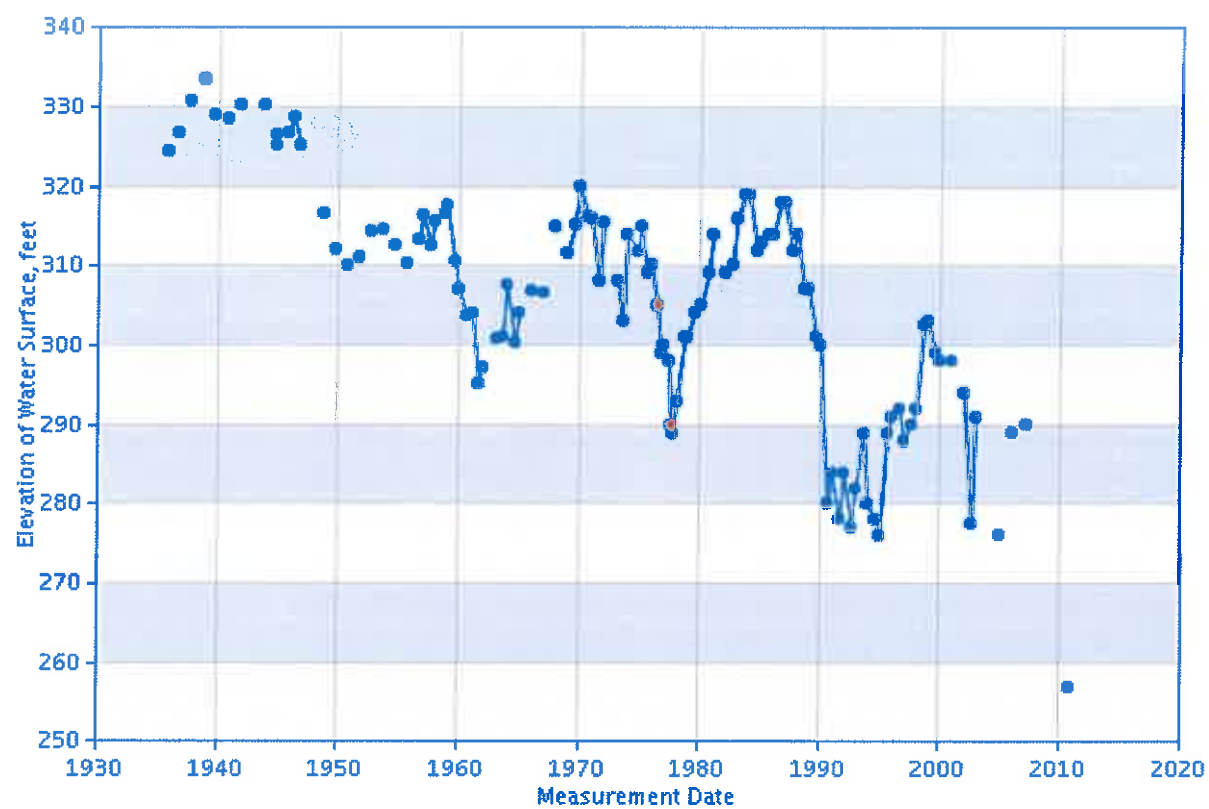
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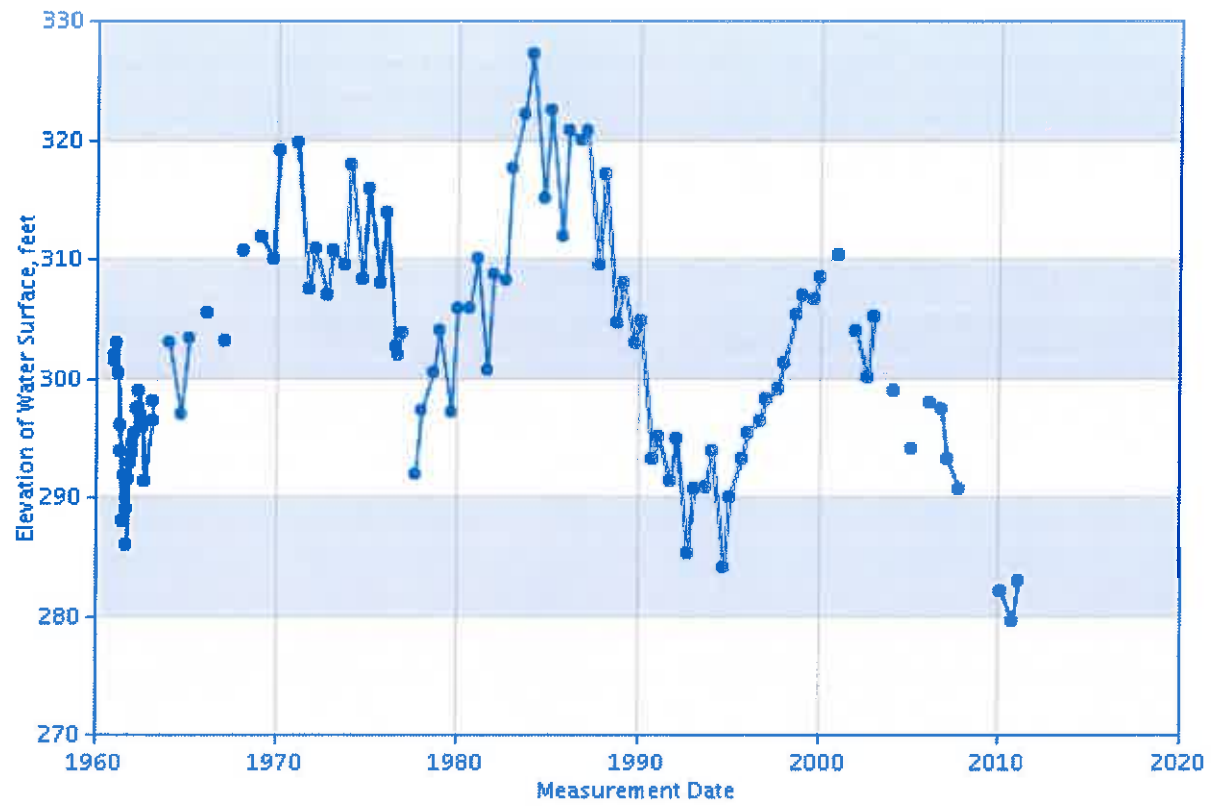
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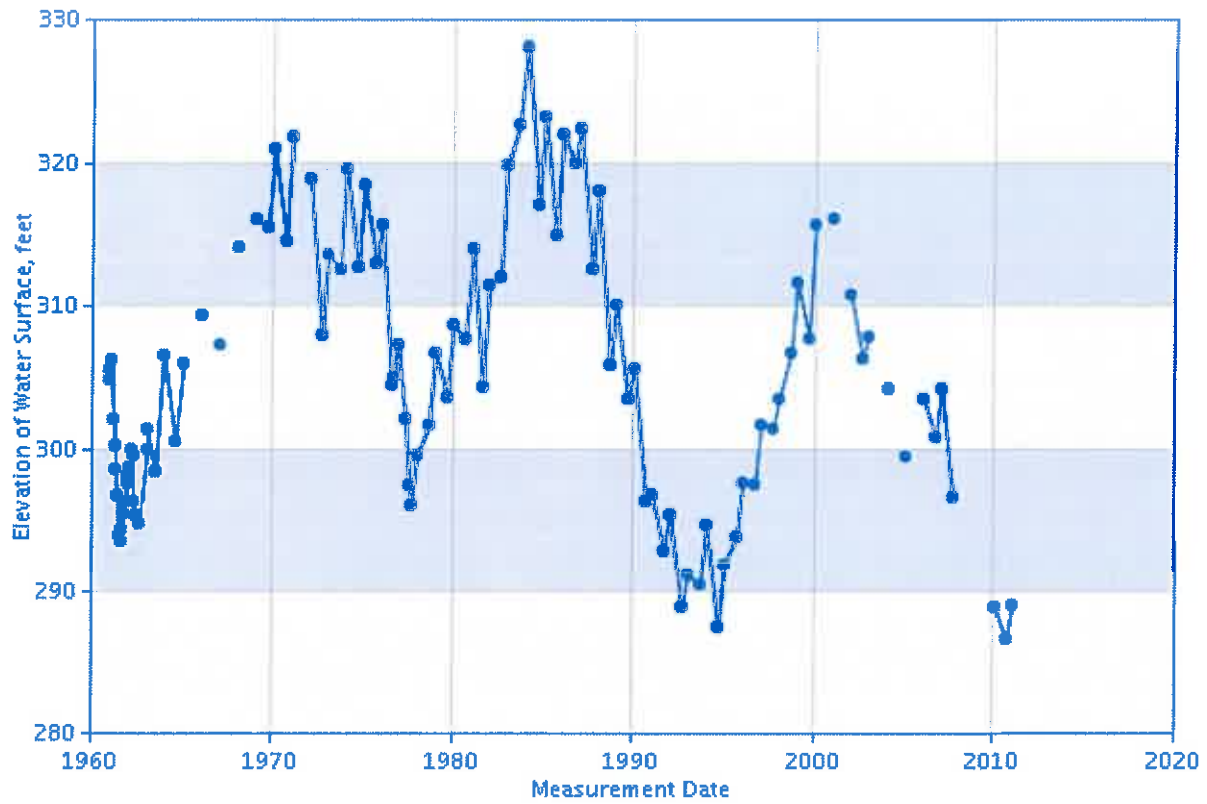
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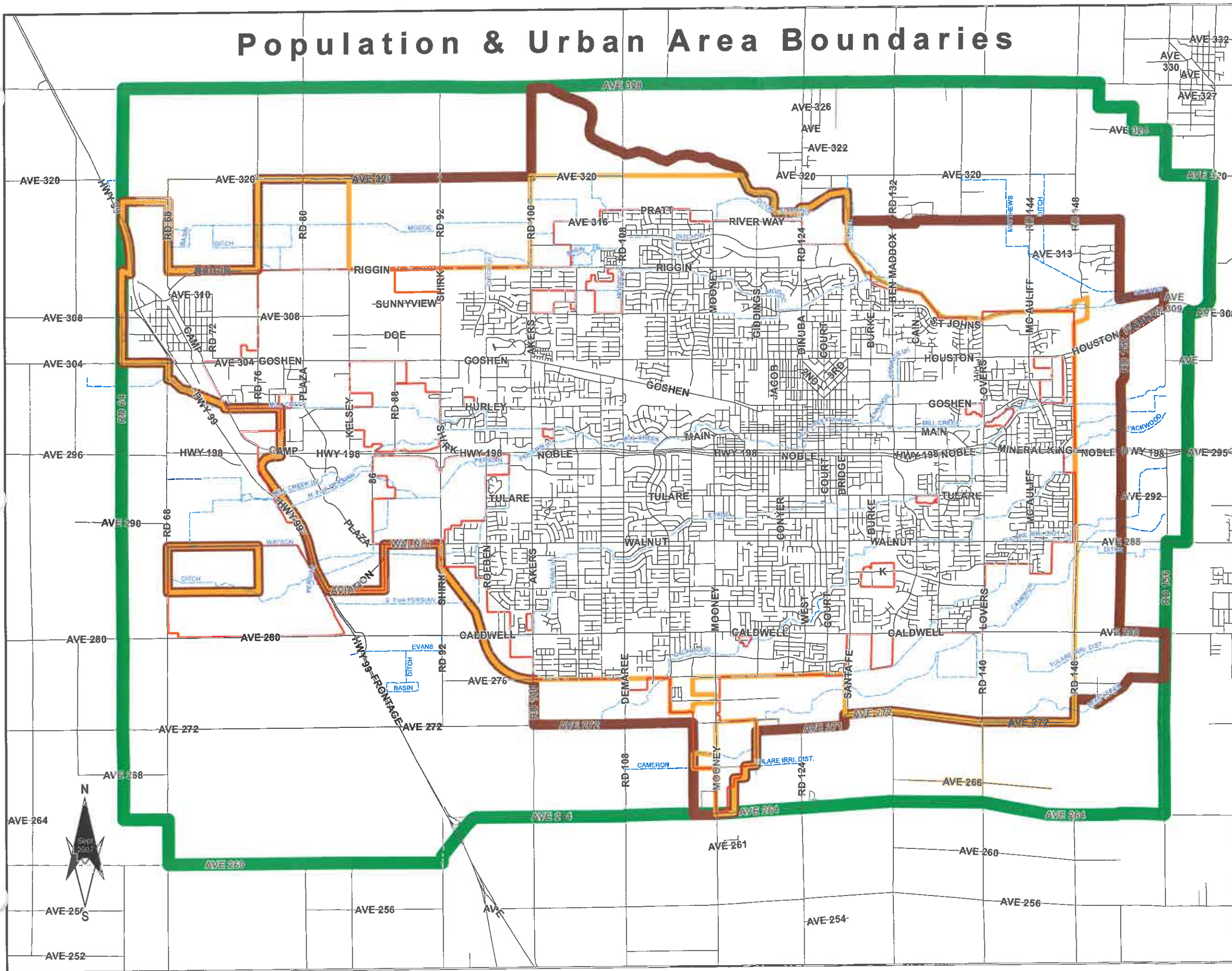
18S 26E 06L 001



18S 26E 07D 001



Population & Urban Area Boundaries



- City Limits
- Streets
- Waterways
- Population 129000
- Population 165000
- Urban Area Boundary



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
PROPOSITION 84 FUNDING PROGRAM, MS 7408

P.O. Box 997377
Sacramento, CA 95899-7377
Office: (916) 449-5600
Fax: (916) 449-5655
dwpfunds@cdph.ca.gov



PROPOSITION 84
The Safe Drinking Water, Water Quality and Supply, Flood Control,
River and Coastal Protection Bond Act of 2006

APPLICATION FOR GRANT FUNDING

- ☒ **Section 75022 – Small Community Infrastructure Improvements for Chemical and Nitrate Contaminants**
Under Section 75022, Please indicate if you are requesting funds for a: ☒ Feasibility Study ☐ Construction Project

- ☐ **Section 75025 – Prevention and Reduction of Groundwater Contamination**

A. PUBLIC WATER SYSTEM AND/OR APPLICANT (Please print or type)

1. Legal Name of Applicant

Ivanhoe Public Utility District

2. Public Water System Name (If different than Legal Name)

Ivanhoe Public Utility District

Public Water System Number

5410019

Project No. (FOR CDPH USE ONLY)

3. Project Title

Well No. 9 – Test Well Project

County

Tulare

4. Authorized Representative (name, title)

Gilbert Cano, President

Mailing Address (number, street)

P. O. Box A

City

Ivanhoe

ZIP code

93235

Fax

(559) 798-0142

E-mail Address

Ivanhoepud@sbcglobal.net

Office Telephone

(559) 798-0512

Mobile Telephone

()

5. Overnight mailing address – Provide a physical address for overnight mail, if different than the mailing address

15859 Azalea Avenue, Ivanhoe, CA 93235

6. Please include the name and district number of the State Senator(s) and Assembly Member(s) representing the service area that benefits from the project:

State Senator (Name and District Number):

Jean Fuller, District 18

State Assembly (Name and District Number):

Connie Conway, District 34

7. List additional people if necessary to be contacted for this project. Contacts may include engineering consultants, project managers, administrative staff, etc. Use additional sheets if necessary.

Additional Project Contact

Dennis R. Keller

Title/Project Role

District Engineer

Mailing Address (number, street)

P. O. Box 911

City

Visalia

ZIP code

93279

Fax

(559) 732-7937

E-mail Address

Kelweg1@aol.com

Office Telephone

(559) 732-7938

Mobile Telephone

()

Additional Project Contact

Title/Project Role

Mailing Address (number, street)

City

ZIP code

Fax

E-mail Address

Office Telephone

Mobile Telephone

Public Water System Name

Ivanhoe Public Utility District

System ID Number

5410019

B. OWNERSHIP TYPE

Indicate the Ownership of the Water System (Check all that apply)

Public Ownership

- ☐ Municipality
☐ County Agency
☒ Special District
☐ State Agency
☐ Federal Agency
☐ Irrigation District
☐ Other

Private Ownership

- ☐ General Corporation
☐ Limited Corporation
☐ Partnership
☐ Incorporated Mutual
☐ Unincorporated Association
☐ Non-Profit Organization - Federal Tax ID #: _____
☐ Limited Liability Company (LLC)
☐ Other

List the formation documents submitted with the application to support the selected ownership type: State of California certification dated October 15, 1951.

C. CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC) NOTIFICATION

1. Does the CPUC regulate the public water system?

☐ Yes☒ No

If Yes, attach a copy of the documentation that verifies the applicant has notified the CPUC of its intent to submit a Prop 84 Funding Application.

2. Provide a list and include a description of all matters relating to the public water system that are currently pending before the CPUC which affect the financial condition of the applicant or the proposed project.

D. ADDITIONAL INFORMATION (Use additional sheets as necessary)1. Current Population Served by the Water System: 4,500 ±2. Current Number of Active Service Connections: 1,114 (as of December 2007)

3. Attach a Map of the service area which includes existing facilities and the proposed project area.

4. Agency that has jurisdiction over the water system: Visalia Field Office☒ CDPH☐ LPA: _____ (list the Local Primary Agency county)5. Is there any litigation pending relative to the operation of the water system or proposed project? ☒ Yes☐ No

If Yes, attach a description of the litigation and potential costs:

The District has entered into a legal representation agreement related to potential contamination by 1,2,3 TCP. The agreement calls for the case to be handled on a contingency basis.

6. Does or will the water system currently contract with a private firm or another agency for the operation of the facility to be financed?

☐ Yes☒ No

If Yes, provide the name of the firm or agency that will operate the facility and include the term (in years) of the agreement. Attach a copy of this agreement.

7. Does or will the applicant lease land or major water system facilities associated with the project? ☐ Yes☒ No

If Yes, describe the terms of the lease or attach a copy of the lease agreement:

Public Water System Name
Ivanhoe Public Utility DistrictSystem ID Number
5410019**E. FUNDING AUTHORITY INFORMATION**

The applicant must have the legal authority to enter into a Proposition 84 Funding Agreement with the State of California.

1. Is the applicant required to hold an election before entering into a Funding Agreement? ☐ Yes ☒ No

2. Provide a description of the actions that the applicant must take to obtain the necessary approvals to enter into a funding agreement. (i.e., Funding Agreement Resolution, modification of by-laws, city council approval, votes of governing body, etc.)

See November 20, 2007 letter from J. Patrick Sullivan, Attorney at Law.

F. PUBLIC WATER SYSTEM RESOLUTION

A resolution is required for submittal of the Prop 84 Funding Application. This is called the Application Resolution. Please refer to the sample funding application resolution included in this Prop 84 Application packet.

1. Application Resolution Status: ☒ Approved

Provide any additional information on the resolution status:

G. LABOR COMPLIANCE PROGRAM (LCP)

The applicant must comply with the Labor Compliance Program (LCP) requirements specified by the Department of Industrial Relations (DIR). Indicate how the LCP requirement will be met for this project by selecting one of the following options. In all cases, please complete the attached LCP Self-Certification Form and submit it with the Prop 84 Funding Application.

- ☐ The applicant will use its own existing Labor Compliance Program, which is approved by the DIR.
- ☐ The applicant will develop a Labor Compliance Plan for approval by the DIR.
- ☒ The applicant has contracted or intends to contract for LCP services from an organization approved by the DIR.
- ☐ DIR may determine that LCP requirements do not need to be met by this project. If so, documentation from the DIR must be provided to support the determination.

Please provide any additional information on the LCP status:

H. TECHNICAL, MANAGERIAL, AND FINANCIAL (TMF) CAPACITY OF APPLICANT

Pursuant to the requirements specified in the Prop 84, Section 75022, Final Revised Criteria (October 20, 2010), the applicant must satisfy the mandatory TMF elements for water systems in order to receive funding. The mandatory TMF elements are: (1) consolidation assessment, (2) proof of ownership, (3) proof of water rights, and (4) a budget projection. Applicants are encouraged to evaluate all TMF elements and submit the TMF assessment form with the application. If the applicant is seeking future funding from the Safe Drinking Water State Revolving Fund program, the completed TMF assessment form must be submitted.

Please list any mandatory TMF requirements that cannot be met at the time of application:

I. PROJECT TECHNICAL REPORT INFORMATION

A Project Technical Report is a required attachment. Small water systems should contact the CDPH Proposition 84 Funding Program or your local CDPH District Office before completing this section. **Please refer to the Project Technical Report Guidelines included with this Prop 84 Funding Application Packet.** Indicate below if the required sections of the Project Technical Report have been included. If the information is provided in a separate document, indicate below and attach a copy of the relevant document.

| | Included in Tech Report | Attached | Attachment Name |
|--|----------------------------|-------------------------------------|-----------------|
| 1. Project Location (include street address and Township, Range & Section) | <input type="checkbox"/> | <input type="checkbox"/> | See comments |
| 2. Maps showing the service area, existing/proposed facilities, site plan, topography, parcels to be purchased | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Exhibit A |
| 3. Documents justifying the ranked problem | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4. Water Permit Status | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5. Problem Description | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6. Description of Proposed Project | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7. Analysis of Alternatives/ Analysis of Cost Effectiveness | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8. Feasibility of Consolidation | <input type="checkbox"/> | <input type="checkbox"/> | |
| 9. Conceptual Project Design | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10. Anticipated Benefits of Proposed Project | <input type="checkbox"/> | <input type="checkbox"/> | |
| 11. Scope of Work and Cost Estimate | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Exhibit A |
| 12. Proposed Project Schedule | <input type="checkbox"/> | <input type="checkbox"/> | |
| 13. Analysis of Projected Growth | <input type="checkbox"/> | <input type="checkbox"/> | |
| 14. Ineligible Project Components | <input type="checkbox"/> | <input type="checkbox"/> | |
| 15. Useful Life of Key Project Components (Applicable to construction projects) | <input type="checkbox"/> | <input type="checkbox"/> | |
| 16. Proposed Design and Construction Schedule (Applicable to construction projects) | <input type="checkbox"/> | <input type="checkbox"/> | |
| 17. Environmental Information (refer to Environmental Documentation section on page 5 of this application) | <input type="checkbox"/> | <input type="checkbox"/> | |
| 18. Other: | <input type="checkbox"/> | <input type="checkbox"/> | |
| Comments: | | | |
| Project location is to be determined as part of the feasibility study. | | | |
| | | | |
| | | | |
| | | | |

Public Water System Name

Ivanhoe Public Utility District

System ID Number

5410019

J. PROJECT ENVIRONMENTAL DOCUMENTATION

California Environmental Quality Act (CEQA) compliance is required for all projects. For additional information refer to the **Application Guidelines**. For CEQA schedules and forms visit the web site at: <http://www.cdph.ca.gov/certific/drinkingwater/Pages/ERU.aspx>

Applicant's CEQA Representative

Dennis R. Keller

Title

District Engineer

Address (number, street)

P. O. Box 911

City

Visalia

ZIP code

93279

Office Telephone

(559) 732-7938

e-mail

Kelweg1@aol.com

Mobile Telephone

()

Fax

(559) 732-7937

- | | | |
|---|---|-------------------------------------|
| 1. Is the applicant or any other public agency acting as the lead agency for the preparation of environmental documents pursuant to CEQA for this project? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 1a If yes, has the CEQA lead agency determined if the activity is project that could be statutorily or categorically exempt from CEQA requirements? Proceed to question 5 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. Have any other CEQA compliance or environmental review documents for this project been drafted, adopted, or circulated? | | |
| <input type="checkbox"/> Yes. Proceed to question 3 below and indicate existing CEQA documents. | | |
| <input type="checkbox"/> No, but applicant is or will be handling CEQA compliance. Proceed to question 4 below and attach a schedule for CEQA compliance. | | |
| <input type="checkbox"/> No, applicant is a private entity and CDPH will be the lead agency, or the applicant is unsure who should handle CEQA compliance. Proceed to question 6 below and attach a copy of the Environmental Information Form. | | |
| 3. If Yes, indicate existing CEQA document(s) and attach a copy. | Attached | Not Applicable |
| a. Negative Declaration with State Clearing House Number on the Document | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Mitigated Negative Declaration with State Clearing House Number on the Document | <input type="checkbox"/> | <input type="checkbox"/> |
| c. EIR w/ State Clearinghouse Number on the document | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Notice of Determination filed w/ County Clerk or State Clearing House with Department of Fish and Game receipt. | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Notice of Exemption filed w/ County Clerk or State Clearing House | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Resolution making CEQA findings | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Other environmental document | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Schedule for CEQA compliance | Attached: | <input type="checkbox"/> |
| 5. If the project has been determined to be exempt, provide a copy of the Worksheet for CEQA Exemptions (for public owned water systems only). | Attached: | <input checked="" type="checkbox"/> |
| 6. Environmental Information Form (EIF) (for private, mutual, or investor-owned water systems only) | Attached: | <input type="checkbox"/> |

Provide any additional status information of the project's Environmental Documentation. (Use additional sheets as necessary)

K. PROJECT FINANCIAL INFORMATION – ESTIMATED PROJECT COSTS (Use additional sheets as necessary)

| Cost Classification | Total Project Costs | Requested Prop 84 Funds | Applicant Funds | Other Funds |
|---------------------|---------------------|-------------------------|-----------------|-------------|
| Total Funding | \$500,000 | \$500,000 | \$ - | \$ - |

If Applicable, please identify the Other source of Funds

| Fund Source | Type of Funds (Grant, Loan, In-Kind, User Fees, etc.) | Amount | Applied for Funding (Yes/ No) | Funding Secured (Yes/ No) |
|-------------|---|--------|----------------------------------|------------------------------|
| | | \$ | | |

PROJECT FINANCIAL INFORMATION – OPERATIONS AND MAINTENANCE (O&M) COSTS

(This section applies to construction projects only; applicants applying for feasibility study funds may disregard this section.)

| Types of O&M Costs for Project Facilities (i.e., labor, power, waste disposal, etc.) | Estimated Annual O&M Costs for Project Facilities | Sources of Funding |
|---|--|--------------------|
| Does not apply | | |
| | | |
| | | |
| | | |
| | | |
| | | |

L. APPLICANT FINANCIAL INFORMATION (Use additional sheets as necessary)

- Provide the current water rate structure, including the current average residential monthly water charge: \$ _____
 - Provide a description of the method used to calculate the average residential rate:
- Provide the average projected water rates after completion of the proposed project:
 - Attach a copy of the water systems rate structure for all consumers (include commercial, industrial users for the current year)
- Attach copies of audited financial statements or tax returns for your entity for the past three most current years.
- List all cash reserves and planned use reserves (Use additional sheets if necessary):

- Provide a detailed list of outstanding indebtedness (Fill out the following table and attach documentation for any debt listed):

| Date issued | Name and Address of Creditor | Maturity Date | Current Balance | Annual Payment Amount | Frequency of Payment | Security Pledge | Interest Rate |
|-------------|------------------------------|---------------|-----------------|-----------------------|----------------------|-----------------------------|---------------|
| 1-1-2007 | CDPH | 7-1-2026 | \$1,494,247 | \$74,712 | Semi-annual | Assessments or User charges | Zero |
| | | | | | | | |

- If available, provide a copy of your current Capital Improvement Plan

M. APPLICATION CERTIFICATION

Provide the signature and date for the Authorized Representative submitting the application. This certifies that the Authorized Representative possesses the authority to apply for funding, and the accuracy of the information provided. For more information on the authority required for signature of the application, refer to the Section F (Public Water System Resolutions) of the application guidelines.

I hereby certify that I am the authorized representative of this public water system and that the information provided in this application and supporting information is accurate to the best of my knowledge.

Authorized Representative's Signature:

Gilbert Cano

Date: July 15, 2011

Authorized Representative's Name (please print):

GILBERT CANO

Authorized Representative's Title:

PRESIDENT

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
 PROPOSITION 84 FUNDING PROGRAM, MS 7406
 P.O. Box 997377
 Sacramento, CA 95899-7377
 (916) 449-5600
 Fax: (916) 449-5655



PROPOSITION 84
**The Safe Drinking Water, Water Quality and Supply, Flood Control,
 River and Coastal Protection Bond Act of 2006**

APPLICANT'S CHECKLIST

The following list of documents must be submitted with the Application for Grant Funding for it to be deemed complete. Incomplete applications will not be processed. If you are not sure if the requested information applies to you, please contact your local CDPH District Office or the Proposition 84 Program. Please note that additional information may be requested during the application review process.

| APPLICATION REQUIREMENTS (Not all of the information listed below is required for all systems. For additional information about each required item please refer to the Proposition 84 Application Guidelines.) | | |
|--|--------------------------|---|
| Included | N/A | Item Description |
| <input checked="" type="checkbox"/> | Required | Application Resolution (Application Section F) |
| <input checked="" type="checkbox"/> | Required | Proposition 84 Application for Grant Funding (with original signature) |
| <input checked="" type="checkbox"/> | Required | Ownership Documents supporting the stated ownership type (Application Section B) |
| <input type="checkbox"/> | <input type="checkbox"/> | (For CPUC regulated water systems only) Attach copy of the notice to the CPUC stating the intent to submit a funding application (Application Section C) |
| <input checked="" type="checkbox"/> | Required | Map of Service Area showing the existing and proposed facilities. (Application Sections D.3 and I.2) |
| <input type="checkbox"/> | <input type="checkbox"/> | Attach a description of any Pending Litigation, its current status and potential cost relative to the operation of the water system or proposed project. (Application Section D.5) |
| <input type="checkbox"/> | <input type="checkbox"/> | Operation Contracts for the Proposed Facility - Provide the name of the firm or agency that will operate the facility and attach a copy of the agreement. (Application Section D.6) |
| <input type="checkbox"/> | <input type="checkbox"/> | Lease Agreement for land or facilities associated with the project - Describe the terms of the lease and attach a copy of the lease agreement. (Application Section D.7) |
| <input checked="" type="checkbox"/> | Required | Labor Compliance Self Certification Form (Application Section G) |
| <input checked="" type="checkbox"/> | Required | Water Meter Certification Form |
| <input checked="" type="checkbox"/> | Required | Payee Data Record Form STD 204 |
| <input checked="" type="checkbox"/> | Required | Mandatory Technical Managerial and Financial (TMF) documents - 5 Year budget projection, consolidation, proof of ownership, and water rights. (Application Section H) |
| <input checked="" type="checkbox"/> | Required | Project Technical Report (Application Section I) |
| <input type="checkbox"/> | <input type="checkbox"/> | (For construction projects only) Plans and Specifications (Application Section I) |
| <input checked="" type="checkbox"/> | Required | Complete CEQA Documents (Application Section J) |
| <input type="checkbox"/> | Required | Water system rate structure for the last three years and calculations showing the average household water rate. (Application Section L.1) |
| <input checked="" type="checkbox"/> | Required | Last three (3) years of financial statements or tax returns, and a balance sheet for the current calendar year or fiscal year. (Application Section L.3) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | List of all cash reserves and planned uses for the reserves. (Application Section L.4) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | A description of all long-term indebtedness. (Application Section L.5) |
| <input type="checkbox"/> | <input type="checkbox"/> | If available, include the most recent Capital Improvement Plan (CIP). (Application Section L.6) |

EXHIBIT A

APPLICATION ATTACHMENTS

WELL NO. 9 - TEST WELL PROJECT

IVANHOE PUBLIC UTILITY DISTRICT

Attachment Name

1. Formation Document;
2. November 20, 2007 letter from J. Patrick Sullivan;
3. Application Resolution;
4. Labor Compliance Program;
5. TMF Submittals (See Exhibit B);
6. Service Area and Existing Facilities;
7. Feasibility Study Scope of Work and Associated Budget;
8. Environmental Documentation
 - Notice of Exemption
9. Financial Information
 - Financial Statement for Fiscal Years
2008 - 2009, 2008 - 2009, and 2009 - 2010.
 - Water System Rate Structure for last three (3) years
10. Water Meter Certification; and
11. Payee Data Record.

FRANK M. JORDAN
SECRETARY OF STATE



SACRAMENTO

I, FRANK M. JORDAN, Secretary of State of the State of California, hereby certify:

That on the 15th day of October, 1951, pursuant to the provisions of Section 9 of the "Public Utility District Act" approved May 31, 1921, as amended (Act 6392 of Deering's General Laws), there was filed in my office a Roll, consisting of a Certificate of the Chairman of the Board of Supervisors of the County of Tulare, under the seal of said Board, together with a copy of the Order adopted by said Board on the 9th day of October, 1951, in the matter of the organization of the Ivanhoe Public Utility District.

I further certify that October 2, 1951, is stated in said Certificate as the date of the election held in certain territory of said County at which there was submitted to the electors thereof the proposition: "Shall Ivanhoe Public Utility District be organized under the provisions of the Public Utility District Act," and that it is shown therein that of the 266 votes cast at said election there were 251 votes cast in favor of said proposition and 15 votes against said proposition.

J. PATRICK SULLIVAN

ATTORNEY AT LAW
214 NORTH ENCINA STREET
VISALIA, CALIFORNIA 93291
TELEPHONE (559) 741-2860

J. Patrick Sullivan
Ryan P. Sullivan

November 20, 2007

Department of Health Services
State of California

Re: Safe Drinking Water State Revolving Fund

To Whom It May Concern:

Please be advised that this office represent the Ivanhoe Public Utility District, who has made an application for construction funds pursuant to the State Drinking Water Revolving Fund loan program, and has asked us to write an opinion letter concerning their authority to enter into a long-term debt contract.

The Ivanhoe Public Utility District is a public utility district incorporated pursuant to the Public Utility District Act found in the Public Utility District Code beginning at §15501.

Pursuant to Public Utility District Code §16571, the District may borrow money and incur or assume indebtedness and issue bonds or other evidence of indebtedness. The only limitation based on the borrowing power of the District is found in Public Utility District Code §16573, which states that the District may not incur any indebtedness which in the aggregate exceeds twenty percent (20%) of the assessed valuation of all real and personal property situated within the District; and §16574 which could be read to place the length of indebtedness at not to exceed forty (40) years.

The Public Utility District Code does not require a public utility district to hold an election before entering into a loan with the State of California; thus, the only time that an election would be required is if the Safe Drinking Water State Revolving Fund requires an election or if bonds are to be issued. The District does have the authority to raise its water rates to repay the loan; however, if the District is required to raise its fees or to impose any type of assessments, it would require the District to initiate that through a Proposition 218 election.

At the current time, this office is not aware of any pending litigation against the District relating to the operation of the water system or the proposed project.

Should you have any questions regarding this matter, please feel free to contact me. Thank you for your courtesy.

Very truly yours,


J. PATRICK SULLIVAN

JPS/jj
cc: client

RESOLUTION NO. 5/25/2011

WHEREAS, the Ivanhoe Public Utility District has the authority to construct, operate, and maintain the Ivanhoe Water System No 5410019 and

WHEREAS, the Ivanhoe Public Utility District desires to enhance the provision and protection of the drinking water supplied to the consumers of Ivanhoe Water System No 5410019, therefore;

BE IT RESOLVED by the Ivanhoe Public Utility District that, pursuant and subject to all of the terms and provisions of The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84) and all amendments thereto, application be made to the State of California for funding; and

BE IT FURTHER RESOLVED that the President of said Ivanhoe Public Utility District is hereby authorized and directed to cause the necessary data to be prepared, investigations to be performed and application to be signed and filed with the State of California.

Passed and adopted at a regular meeting of the Ivanhoe Public Utility District of the Ivanhoe Water System No 5410019 on 25th of May, 2011.

Signature: Carol Fina

Print name clearly: CAROL FINA

Title: OFFICE MANAGER



HOWARD BACKER, MD, MPH
Interim Director

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

Labor Compliance Program Self Certification Form

Among the requirements of funding by the California Department of Public Health (CDPH) is fulfillment of a Labor Compliance Program (LCP). Please provide the following LCP information for your project:

| | |
|---|---------------------------------|
| Water System Name | Iyanhoe Public Utility District |
| CDPH Project Identification No. | P84C-5410019-002 |
| LCP Identification No. | 2003.00026 |
| Firm / Agency | Labor Consultants of California |
| Date of agreement | To be determined |
| LCP Contact Person | Mr. Richard Perez |
| LCP Contact Phone No. | 559-584-7499 |
| LCP Contact E-mail | laborc@cnetech.com |
| <i>I certify that the above information reflects the LCP for the referenced project and the LCP will remain in effect throughout construction of the project:</i> | |
| Water System Authorized Representative (printed name): <u>Gilbert Cano</u> | |
| Signature: <u>Gilbert Cano</u> Date: <u>06 July 2011</u> | |

☐ The Department of Industrial Relations determined this project is exempted from the LCP requirement.

The Department of Industrial Relations is responsible for LCP compliance matters. If you have specific questions concerning LCP requirements, as they apply to your project, please contact Nancy Stephans at (415) 703-5063 at the Department of Industrial Relations.

Please return to:

Proposition 84 Program
California Department of Public Health
Division of Drinking Water and Environmental Management
1616 Capitol Avenue, MS 7408
Post Office Box 997377
Sacramento, California 95899-7377

ROUTE 2



ATCH LINE
BELOW

LEGEND

IVANHOE PUBLIC UTILITY DISTRICT BOUNDARY

- EXISTING 12" AC WATER MAIN
- EXISTING 12" PVC MAINS
- EXISTING 10" AC WATER MAIN
- EXISTING 10" PVC MAINS
- EXISTING 8" AC WATER MAIN
- EXISTING 8" PVC MAINS
- EXISTING 6" AC WATER MAIN
- EXISTING 4" AC WATER MAIN
- EXISTING 3" STEEL WATER MAIN
- EXISTING 2" OR SMALLER STEEL WATER MAIN

- EXISTING FIRE HYDRANT
- EXISTING WELL SITE AND NUMBER
- EXISTING BLOW-OFF ASSEMBLY
- EXISTING GATE VALVE

IVANHOE PUBLIC UTILITY DISTRICT
WATER DISTRIBUTION SYSTEM

PROPOSITION 84 APPLICATION

PLAN SCALE: AS SHOWN

DRAWN BY: D. BRUCE
APPROVED BY: D. R. KELLER
C.E. NO. 24199 DATE: 8/18/02

DENNIS R. KELLER
JAMES H. WEGLEY
CONSULTING ENGINEERS
209 SOUTH LOCUST STREET
VESUBA, CALIFORNIA 93281 558-732-7838

SHEET 1 OF 1

FEASIBILITY STUDY SCOPE OF WORK AND ASSOCIATED BUDGET

3P

IVANHOE PUBLIC UTILITY DISTRICT
Project No. 5410019

DESCRIPTION PLANNING PROJECT TASKS AND ASSOCIATED BUDGET

(Dated: 6-30-11)

| Scope of Work | Budget (\$) |
|---|-------------|
| Project Management <ul style="list-style-type: none"> Perform ongoing project management of planning grant activities including coordination and preparation of reimbursement. | \$10,000 |
| Problem Evaluation <ul style="list-style-type: none"> Include the evaluation of current and projected 20-year water supply and demand to identify potential sources available and associated costs of developing each source. (\$15,000) Evaluate a practical communication system between wells (\$15,000) Preparation of draft Preliminary Design Report including alternatives (\$30,000) Drinking Water Source Assessment (\$15,000) Prepare or update all required information for the TMF assessment (Water Quality Emergency Response Plan, Budget Controls, Capital Improvement Plan, System Operations Plan). (\$25,000) | \$100,000 |
| CEQA/NEPA <ul style="list-style-type: none"> Prepare environmental evaluation/documents and conduct all necessary public notifications required by law for a new well site. | \$20,000 |
| Earth and Land Investigation <ul style="list-style-type: none"> Perform soils investigation including soil logging. Geotechnical Report for the site will be prepared to assist with evaluation of feasibility project. Perform required land surveying | \$10,000 |
| Drilling of Test Well(s) (see below for cost breakdown) (see Note 1) <ul style="list-style-type: none"> Describe purpose of test well(s), indicate number of test well(s) to be drilled, depth of test well(s), water quality sampling, pump testing, etc. Prepare design for test well and construction specifications. Ensure Labor Compliance requirements are met for funding. Obtain necessary construction easements and prepare required easements for construction Perform Hydrological/Geotechnical investigation Prepare Hydrogeologist, Drilling Report Electric logs Note: cost estimate is for two test wells | \$260,000 |

| | |
|--|------------------|
| Plans and Specifications <ul style="list-style-type: none"> • Develop plans and specifications for the drilling and construction of the production well, well site improvements, SCADA system, well abandonment and transmission lines to new well site. • Prepare complete set of bid documents. • Submit Plans and Specifications to CDPH for review and approval. • Respond to comments from CDPH. | \$100,000 |
| Total | \$500,000 |

| Test Well cost breakdown: | |
|---|------------------|
| <u>Item Description</u> | <u>Amount</u> |
| 1) Easement Preparation | \$5,000 |
| 2) Hydro geological investigation and report | 15,000 |
| 3) Specification preparation and bid administration (Note 1) | 12,000 |
| 4) Submit Plans and Specifications to CDPH and respond to questions/comments. | 5,000 |
| 5) Drill two (2) test wells, electric logs, and sample water by aquifer @ \$85,000 each | 170,000 |
| 6) Log and classify two (2) test wells drilling (based on 4 days 24 hours/day) @\$12,250 each | 25,000 |
| 7) Water quality sampling and analysis of 7 aquifers per well (Coli form, EDB, Nitrates, DBCP, DDT and 1,2,3, TCP) (Note 2) | 7,000 |
| 8) Construction and contract administration | 8,200 |
| 9) Labor Compliance Program | 7,800 |
| 10) Construction Contingency | 5,000 |
| Total | \$260,000 |

Note 1: Based on one construction contract. Contractor will drill the second test well, if necessary, and subject to CDPH review and approval.

Note 2: Water quality sampling and analysis shown is for cost purposes, only. The final water quality sampling and analysis will be submitted to CDPH as part of the Test Well Plans and Specification Submittal.

I hereby certify that this Feasibility Study Scope of Work and Associated Budget report was prepared by an authorized representative of this public water system and that the information provided in this Feasibility Study Scope of Work and Associated Budget is accurate to the best of my knowledge.

Authorized Representative's Signature: Herbert Cano Date: 07/06/11

Authorized Representative's Name (please print): Herbert Cano

Authorized Representative's Title: President

NOTICE OF EXEMPTION

TO: ☒ Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, California 95814

FROM: Ivanhoe Public Utility District
P. O. Box A
Ivanhoe, CA 93235

☒ County Clerk, County of Tulare
Courthouse, County Civic Center
Visalia, California 93291

Project Title: Well No. 9 - Test Well Project

Project Location - Specific: To Be Determined

Project Location - City: Unincorporated Community of Ivanhoe Project Location - County: Tulare

Description of Nature, Purpose and Beneficiaries of Project:

Drilling a test well, sampling and analysis of well's water quality. The information obtained from the test well will assist in the field design of the production well.

Name of Public Agency Approving Project: Ivanhoe Public Utility District

Name of Person or Agency Carrying Out Project: Ivanhoe Public Utility District

Exempt Status: (Check One)

☐ Ministerial (Sec. 21080(b)(1); 15268)

☐ Declare Emergency (Sec. 21080(b)(3); 15269(a))

☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c))

☒ Categorical Exemption: Feasibility and Planning Studies: CCR Section 15306, Class 6, "Information collection"

☐ Statutory Exemptions

Reasons why project is exempt: The project is a planning/feasibility study. See exempt citation above.

| | | | |
|-------------------------------|-----------|-----------|-----------|
| Gilbert Cano, Board President | 559 | 798-0512 | |
| Lead Agency Contact Person | Area Code | Telephone | Extension |

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a notice of exemption been filed by the public agency approving the project?
Yes ☒ No ☐

Signature: Gilbert Cano Date: 07/06/11 Title: Board President

☒ Signed by Lead Agency

Date Received for filing at OPR: _____

☒ Signed by Applicant

California State Water Resources Control Board
California Department of Water Resources
California Department of Public Health



**CERTIFICATION FOR
COMPLIANCE WITH WATER METERING REQUIREMENTS
FOR FUNDING APPLICATIONS**

| | |
|---|--|
| Funding Agency name: | California Department of Public Health |
| Funding Program name: | California Department of Public Health |
| Applicant (Agency name): | Ivanhoe Public Utility District |
| Project Title (as shown on application form): | Well No. 9 - Test Well Project |

Please check one of the boxes below and sign and date this form.

☒ As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the agency is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

☐ As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that ordinances, rules, or regulations have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Gilbert Cano
Name of Authorized Representative
(Please print)

Signature

President
Title

06 July 2011
Date

PAYEE DATA RECORDRequired when receiving payment from the State of California in lieu of IRS W-9
STD. 204 (Rev. 5/05) CDPH

| | | | | |
|----------|---|---|------------------------------------|---|
| 1 | INSTRUCTIONS: Complete all information on this form. Sign, date, and return to the State agency (department/office) address shown at the bottom of this page. Prompt return of this fully completed form will prevent delays when processing payments. Information provided in this form will be used by State agencies to prepare Information Returns (1099). See reverse side for more information and Privacy Statement. NOTE: Governmental entities, federal, state, and local (including school districts), are not required to submit this form. | | | |
| 2 | PAYEE'S LEGAL BUSINESS NAME (Type or Print) Ivanhoe Public Utility District <hr/> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> SOLE PROPRIETOR—ENTER NAME AS SHOWN ON SSN (Last, First, M.I.) MAILING ADDRESS P. O. Box A CITY, STATE, ZIP CODE Ivanhoe </div> <div style="width: 45%;"> E-MAIL ADDRESS ivanhoepud@sbcglobal.net <hr/> BUSINESS ADDRESS 15859 Azalea Avenue, Ivanhoe, CA 93235 CITY, STATE, ZIP CODE CA. 93235 </div> </div> | | | |
| 3 | PAYEE ENTITY TYPE CHECK ONE BOX ONLY | ENTER FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): <div style="display: flex; align-items: center; gap: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">9</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">4</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">-</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">6</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">0</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">2</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">9</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">4</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">1</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; line-height: 20px;">2</div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> ESTATE OR TRUST <input type="checkbox"/> INDIVIDUAL OR SOLE PROPRIETOR ENTER SOCIAL SECURITY NUMBER: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> </div> <div style="width: 45%;"> CORPORATION: <input type="checkbox"/> MEDICAL (e.g., dentistry, psychotherapy, chiropractic, etc.) <input type="checkbox"/> LEGAL (e.g., attorney services) <input checked="" type="checkbox"/> EXEMPT (nonprofit) <input type="checkbox"/> ALL OTHERS </div> </div> </div> | | NOTE: Payment will not be processed without an accompanying taxpayer I.D. number. |
| 4 | PAYEE RESIDENCY TYPE | <input checked="" type="checkbox"/> California resident—qualified to do business in California or maintains a permanent place of business in California. <input type="checkbox"/> California nonresident (see reverse side)—Payments to nonresidents for services may be subject to State income tax withholding. <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> No services performed in California. <input type="checkbox"/> Copy of Franchise Tax Board waiver of State withholding attached. </div> | | |
| 5 | I hereby certify under penalty of perjury that the information provided on this document is true and correct. Should my residency status change, I will promptly notify the State agency below. | | | |
| | AUTHORIZED PAYEE REPRESENTATIVE'S NAME (Type or Print) Gilbert Cano | | TITLE President | |
| | SIGNATURE | | DATE 06 July 2011 | |
| | | | TELEPHONE (559) 798-0512 | |
| 6 | Please return completed form to: Department/Office: California Department of Public Health <hr/> Unit/Section: Safe Drinking Water- Fiscal Unit <hr/> Mailing Address: 1616 Capitol Avenue, M/S 7418 <hr/> City/State/ZIP: Sacramento, CA 95899 <hr/> Telephone: (916) 449-5569 FAX: (916) 449-5655 <hr/> E-Mail Address: Nelson.Serrano@cdph.ca.gov <hr/> | | | |

EXHIBIT B

MANDATORY TMF ELEMENTS FOR
PROPOSITION 84 APPLICATION

WELL NO. 9 – TEST WELL PROJECT

IVANHOE PUBLIC UTILITY DISTRICT

1. Consolidation Assessment (attached);
2. Proof of Ownership:
The Feasibility Study will identify a project well site, and the District will acquire fee title to the well site.
3. Proof of water rights:
The source of water for the system is groundwater from an unadjudicated basin. Upon well site identification and purchase of said property, a copy of the deed will be obtained.
4. Five Year Budget Projection:
See attached.

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
CALIFORNIA SAFE DRINKING WATER
STATE REVOLVING FUND

ENGINEERING REPORT

APPLICATION 5410019-02

PRIORITY LIST CATEGORY: F

IVANHOE PUBLIC UTILITY DISTRICT
TULARE COUNTY

DECEMBER 2007



Prepared By:
Dennis R. Keller / James H. Wegley
Consulting Civil Engineers

and availability of such locations, however, has not been pursued. Another disadvantage to surface water treatment is the increased regulatory requirements associated with drinking water treatment.

Consolidation

The District represents the only public water system in the local area. The cities of Visalia (6 miles away) and Farmersville (5 miles away) offer the closest water systems to the District. The City of Visalia does not provide water to the residents of the City. A private water company, California Water Service, serves the City of Visalia. The distances to the District, make consideration of consolidation unattractive at this time. In addition, either the City of Farmersville or California Water Service would need to develop the additional water supplies to serve the District. The District also provides sewer and street light services in addition to water. This alternative was not considered further.

PROPOSED PROJECT

Table 5 summarizes preliminary capital costs and annual costs for each alternative. Drilling a new groundwater well represents the proposed Project. This approach was selected for the following reasons:

1. A new well represents the most cost effective approach;
2. The District does not have access to a readily available surface water supply;
and
3. Ion exchange for nitrate removal presents problematic and costly residual disposal considerations.

FIVE YEAR BUDGET PROJECTION
IVANHOE PUBLIC UTILITY DISTRICT

Discussion:

Table 1 presents the Ivanhoe Public Utility District's (District's) Water Fund Budget adopted on June 28, 2011. The Proposition 84 grant funds are shown added to the adopted budget. Table 2 presents a simplified five (5) year budget projection from Fiscal Year 2011-2012 to 2015-2016.

On the revenue side, customer sales and miscellaneous revenues do not show any increase over the five (5) year period. The District completed Proposition 218 procedures in Fiscal Year 2009-2010, which grants permission to the District to increase water service rate to a defined ceiling amount. The current water service rate is below the ceiling amount. Attached is a copy of the Public Hearing Notice.

Reserves are itemized on Table 1. Table 2 shows an increase in the reserve amount by \$55,000 per year to account for some amount of inflation. The Total Available Funds is made up of the beginning cash plus Total Estimated Revenues less Total Reserves.

On the operating expense side, Total Salaries and Employee Benefits are increased four (4) percent annually, while Total Services and Supplies are increased five (5) percent annually. The annual percentage increases were based on an analysis conducted during the District's recent Proposition 218 process. The remaining expense categories were not adjusted.

The Ending Balance is the Total Available Funds, less Total Estimated Expenses.

The Beginning Cash is adjusted based on the Ending Balance. Based on the above stated conditions, the five (5) year budget projection shows a \$25,817 shortfall at the end of Fiscal Year 2015-2016.

TABLE 1
APPROVED WATER BUDGET
FISCAL YEAR 2011 - 2012
IVANHOE PUBLIC UTILITY DISTRICT

| | <u>Budget</u> |
|---|---------------|
| <u>Fund Balances</u> | |
| Beginning Cash Fund Balance | \$ 3,245,386 |
| <u>Revenues</u> | |
| Interest | \$ 14,652 |
| Other | 3,600 |
| Late Charges | 11,496 |
| Disconnect/Reconnect Fees | 360 |
| Customer Sales, Water | 460,600 |
| Capacity Rights fees | 3,600 |
| Reimbursable | 100 |
| Total Estimated Revenue | \$ 494,608 |
| <u>Reserve Funds</u> | |
| Well Replacement | 1,419,285 |
| Misc. Equipment | 10,965 |
| Pick up trucks | 21,011 |
| Air Compressor | 12,009 |
| Well site | 29,241 |
| SRF Reserves | 144,276 |
| Board Designated reserves | 1,555,785 |
| Total Reserves | \$ 3,192,572 |
| TOTAL AVAILABLE FUNDS | \$ 548,422 |
| <u>Expenses</u> | |
| <u>Salaries & Employee Benefits</u> | |
| Salaries | \$ 92,004 |
| Directors' Fees | 1,506 |
| Retirement | 8,200 |
| Payroll Taxes | 10,200 |
| Health Insurance | 12,000 |
| Life Insurance | 360 |
| Worker's Compensation Insurance | 8,004 |
| Total Salaries & Employee Benefits | \$ 132,274 |

TABLE 1
APPROVED WATER BUDGET
FISCAL YEAR 2011 - 2012
IVANHOE PUBLIC UTILITY DISTRICT

| | <u>Budget</u> |
|---|-------------------|
| <u>Services and Supplies</u> | |
| Uniforms | \$ 2,000 |
| Communications | 2,500 |
| Insurance | 10,008 |
| Maintenance - Equipment | 28,504 |
| Maintenance - Structures, Improvements & Grounds | 7,000 |
| Miscellaneous Expense | 11,380 |
| Office Expense | 8,004 |
| Professional & Specialized Expense | 37,240 |
| Publications & Legal Notices | 2,280 |
| Rentals & Leases - Equipment | 1,008 |
| Small Tools & Instruments | 600 |
| District Special Expense | 600 |
| Transportation & Travel | 7,008 |
| Fees & Permits | 20,880 |
| Utilities - Office | 1,800 |
| Utilities - Plant | 60,000 |
| Total Services & Supplies | \$ 200,812 |
| <u>Other</u> | |
| Repayment - Long Term Debt | \$ 74,512 |
| Total Other Charges | \$ 74,512 |
| <u>Fixed Assets (5)</u> | |
| Meter Installations | \$ 36,000 |
| Valves | 20,000 |
| Total Fixed Assets | \$ 56,000 |
| <u>Contingencies</u> | |
| Appropriation for contingencies | \$ 20,000 |
| | \$ |
| TOTAL BUDGET EXPENDITURES | \$ 483,598 |

TABLE 2
SIMPLIFIED FIVE (5) YEAR BUDGET PROJECTION
FISCAL YEARS 2011-2012 THROUGH 2015-2016
IVANHOE PUBLIC UTILITY DISTRICT

| | Adopted 2011-2012 Budget (1) | Addition to 2011-2012 Budget (2) | Total 2011-2012 Budget (2) | Fiscal Year Ending (FYE) | | |
|--|------------------------------------|--|----------------------------------|--------------------------|--------------|--------------|
| | | | | 2013 | 2014 | 2015 |
| Beginning Cash | \$ 3,246,386 | | \$ 3,246,386 | \$ 3,311,210 | \$ 3,370,526 | \$ 3,418,112 |
| Revenue: | | | | | | \$ 3,441,491 |
| Customer Sales | \$ 460,800 | | \$ 460,800 | \$ 460,800 | \$ 460,800 | \$ 460,800 |
| Prop 84 (2) | | \$ 500,000 | \$ 500,000 | | | |
| Miscellaneous revenue | 33,808 | | \$ 33,808 | 33,808 | 33,808 | 33,808 |
| Total Estimated Revenues | \$ 494,608 | \$ 500,000 | \$ 994,608 | \$ 494,608 | \$ 494,608 | \$ 494,608 |
| Reserves | | | | | | |
| Total Reserves (3) | \$ 3,192,572 | \$ - | \$ 3,192,572 | \$ 3,247,572 | \$ 3,302,572 | \$ 3,357,572 |
| Total Available Funds | \$ 548,422 | \$ 500,000 | \$ 1,048,422 | \$ 558,246 | \$ 562,562 | \$ 555,148 |
| Operating Expenses | | | | | | \$ 523,527 |
| Total Salaries & Employee Benefits (4) | (132,274) | | \$ (132,274) | (137,565) | (143,068) | (148,791) |
| Total Services & Supplies (5) | (200,812) | | \$ (200,812) | (210,853) | (221,396) | (232,466) |
| Other | (74,512) | | \$ (74,512) | (74,512) | (74,512) | (74,512) |
| Fixed Assets (4) | (56,000) | | \$ (56,000) | (56,000) | (56,000) | (56,000) |
| Prop 84 (6) | | (500,000) | | | | |
| Contingencies | (20,000) | | \$ (20,000) | (20,000) | (20,000) | (20,000) |
| Total Estimated Expenses | \$ (483,598) | \$ (500,000) | \$ (983,598) | \$ (498,930) | \$ (514,976) | \$ (531,769) |
| Ending Balance | \$ 64,824 | | \$ 64,824 | \$ 59,316 | \$ 47,586 | \$ 23,379 |
| | | | | | | \$ (25,817) |

Notes:

- (1) See Table 1 for budget detail unless otherwise noted.
- (2) Anticipated budget addition for the Proposition 84 grant.
- (3) Total Reserves include a \$55,000 per year increase to account for inflation.
- (4) Annual increase is based on an annual increase of 4.0%.
- (5) Annual increase is based on an annual increase of 5.0%.

PUBLIC HEARING NOTICE
PROPOSED WATER AND SEWER SERVICE CHARGE INCREASES
IVANHOE PUBLIC UTILITY DISTRICT

TO: Record owners of parcels inside the service area of the District
Renters who are customers of the District

FROM: Board of Directors
Ivanhoe Public Utility District

Please take notice that, in accordance with the rules and procedures established under Article 13(D) of the California Constitution and those additional procedures established under Section 53750 et. seq of the Government Code of the State of California, also referred to as Proposition 218, the Ivanhoe Public Utility District (District) proposes to increase the monthly water and sewer service charges to District customers.

1. **ISSUE:** The District last raised water service charges in Fiscal Year 1992-1993 and sewer service charges in Fiscal Year 1992-1993. Cost increases have led the District to be more cost efficient and to delay mandated modifications to the utility systems. These cost increases have continued to grow and the utility systems continue to grow older, causing the District to be forced to consider an increase in rates to offset maintenance and replacement costs.

2. **TOTAL MAXIMUM REVENUE REQUIREMENTS AND PROPOSED WATER AND SEWER SERVICE CHARGE AMOUNTS:** Presented in Table A is the 5-year projected revenue requirements and the responsive 5-year proposed water and sewer service charge increase amounts. The amounts listed in Table A, are the initial and maximum amounts that the monthly rates could be raised through Fiscal Year 2013-2014. The table shows the initial and maximum service charge amounts if the District retains its property tax revenue share and the table also shows the initial and maximum service charge amounts if the District loses its property tax revenue.

3. **DURATION OF PAYMENT:** The charges shall be levied monthly and shall be established by action of the Board. The charges listed refer to initial and maximum charges. The Board may increase the monthly rates at levels lower than the maximums stated above. Please be advised that no increase in your monthly rate can be imposed in excess of the rates shown above without another action, like this action, involving the affected landowners.

4. **REASON FOR THE INCREASES:** The increases in charges are intended to generate funds for the District in amounts necessary to balance the annual budgets. Rates were increased the last time in Fiscal Year 1992-1993 for water and Fiscal Year 1992-1993 for sewer. Since the time of the last rate increase, the District has experienced cost increases, especially with regard to salaries, maintenance, fuel costs and power costs. Further, the water and sewer systems are in need of rehabilitation. A full and complete derivation of the increased amounts is set forth in the Engineers' Report, a copy of which is available at the District office.

5. **BASIS UPON WHICH THE CHARGES ARE CALCULATED:** The total amounts of the increases are based upon the projected budgets of the District. Revenue amounts were allocated to customers who are connected to the water and sewer systems of the District based on single-family residential equivalency.

6. **AFFECTED PARCELS:** The parcels upon which charges are to be imposed are located inside the District boundary as shown on the attached Figure 1. Out of District customers are bound by ordinance provisions.

7. **DATE, TIME AND LOCATION OF PUBLIC HEARING:**

| | |
|-----------|-------------------------------------|
| DATE: | <u>24 August 2009</u> |
| TIME: | <u>6:30 p.m.</u> |
| LOCATION: | <u>Walnut Grove Assembly of God</u> |
| | <u>32576 Road 160</u> |
| | <u>Ivanhoe, California</u> |

Protests to the proposed water and sewer service charge increases must be submitted in writing and signed by the customer or landowner of record for each parcel located in the District impacted by the proposed charges. The District must be in receipt of all protest documents before the close of the Public Hearing. The District's mailing address is: 15859 Azalea Avenue, Ivanhoe, CA 93235.

If you have questions regarding the proposed charge or the hearing process, please contact Carol A. Edwards Fina at 559/798-0512.

TABLE A
TOTAL MAXIMUM REVENUE REQUIREMENTS AND PROPOSED WATER AND SEWER SERVICE CHARGE AMOUNTS
PUBLIC HEARING NOTICE
IVANHOE PUBLIC UTILITY DISTRICT

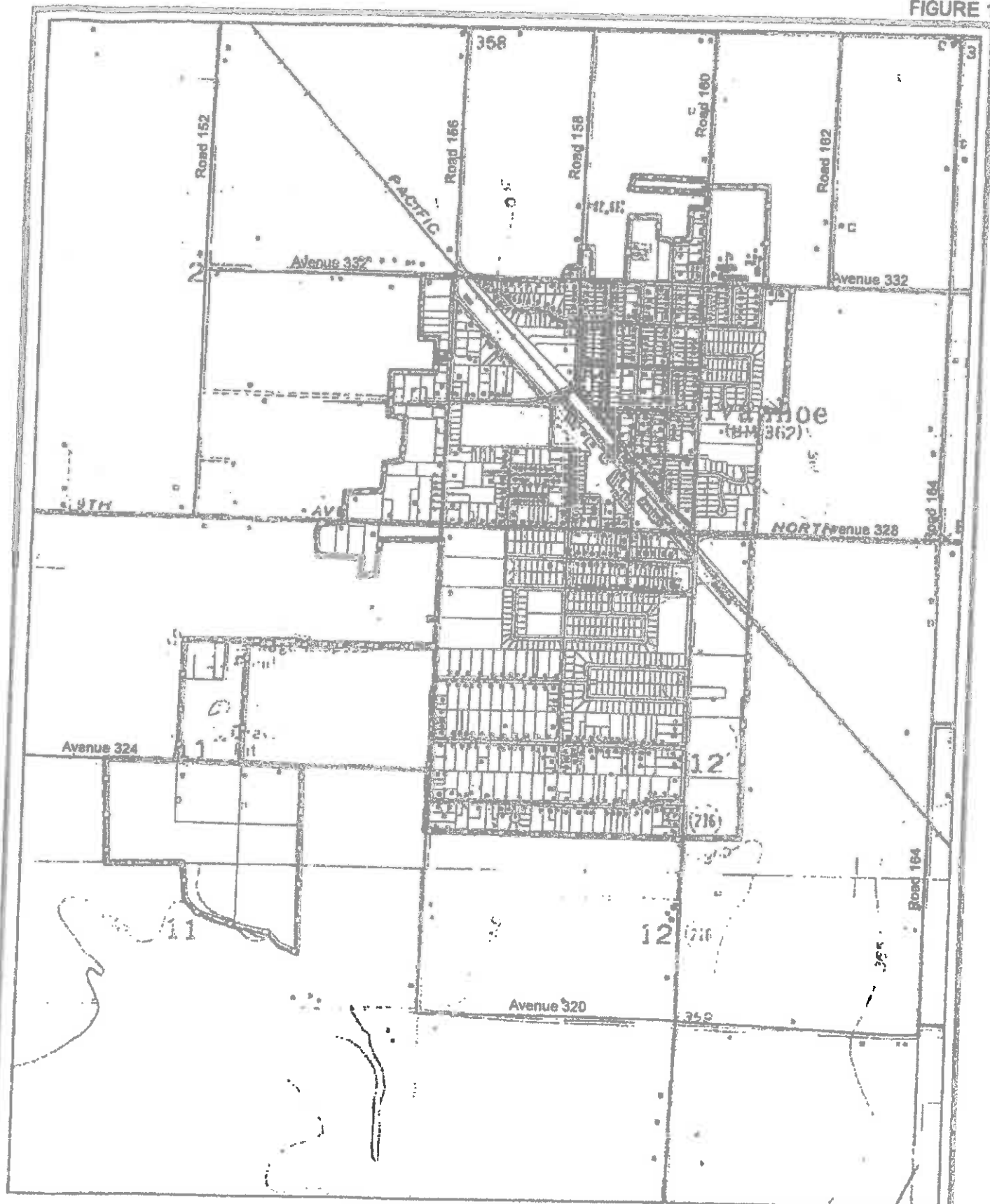
| Budget | Revenue Purpose | SFRUE (1) Number | CHARGES IF DISTRICT RETAINS PROPERTY TAX SHARE | | | | CHARGES IF DISTRICT LOSES PROPERTY TAX SHARE | | | | | | | |
|--------|---|---------------------|---|------------------------------|----------|--------------------|---|--|------------------------------|----------|--------------------|--------------|---------------|------|
| | | | Supplemental Revenue Maximum Amount | Proposed Monthly Increase | | Total Monthly Rate | | Supplemental Revenue Maximum Amount | Proposed Monthly Increase | | Total Monthly Rate | | | |
| | | | | Initial | Maximum | Present | Proposed | | Initial | Maximum | Present | Proposed | | |
| | | | | | | | 2013- 2014 | | | | | 2014 | 2013- 2014 | 2014 |
| Water | Fund loan repayment, offset increased operating costs and cover 5 years of cost escalation. | 1,334 | \$353,962 | \$ 13.18 | \$ 22.11 | \$ 14.56 (2) | \$ 27.74 (3) | \$390,332 | \$ 15.45 | \$ 24.38 | \$ 14.56 (2) | \$ 30.01 (3) | \$ 38.94 (3) | |
| Sewer | Offset increased operating costs and cover 5 years of cost escalation. | 1,342 | \$182,507 | \$ 6.63 | \$ 11.33 | \$ 9.50 | \$ 16.13 | \$218,877 | \$ 8.89 | \$ 13.59 | \$ 9.50 | \$ 18.39 | \$ 23.09 | |

(1) SFRUE - Single Family Residential Unit Equivalent.

(2) Average. Present rate is \$9.50 base charge and \$0.22 per 100 cubic foot consumption charge.

(3) Estimated Average fee.

FIGURE 1



Legend



DISTRICT BOUNDARY



DISTRICT BOUNDARY

PROPOSITION 218

IVANHOE PUBLIC UTILITY DISTRICT

| IVANHOE PUBLIC UTILITY | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
| Final July 1, 2012 through June 30, 2013 Budget | | | | | | | | | |
| | Water | | | Sewer | | | Street Lights | | |
| | June 30 2012 | June 30 2012 | June 30 2013 | June 30 2012 | June 30 2012 | June 30 2013 | June 30 2012 | June 30 2012 | June 30 2013 |
| | Prelim YTD | Budget | Final | Prelim YTD | Budget | Final | Prelim YTD | Budget | Final |
| Revenues | | | | | | | | | |
| Meter Fees | 436,328.73 | 460,800.00 | 441,000.00 | 274,178.26 | 295,200.00 | 279,000.00 | 26,471.08 | 34,800.00 | 27,000.00 |
| Reconnect Fees | 480.00 | 360.00 | 520.00 | 500.00 | 360.00 | 520.00 | 0.00 | 0.00 | 0.00 |
| Capacity Rights Connection | 92,979.06 | 3,600.00 | 3,600.00 | 84,757.55 | 4,670.00 | 4,670.00 | 0.00 | 0.00 | 0.00 |
| Misc Reim. & Charges | 1,946.48 | 100.00 | 100.00 | 1,617.35 | 100.00 | 100.00 | 0.00 | 0.00 | 0.00 |
| Property Taxes | 0.00 | 0.00 | 0.00 | 58,458.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Late Fees Charged | 10,030.00 | 11,496.00 | 11,000.00 | 10,030.00 | 11,496.00 | 9,900.00 | 0.00 | 0.00 | 0.00 |
| 48 Hour Hand Del Fee | 3,450.00 | 3,800.00 | 3,800.00 | 3,480.00 | 3,800.00 | 3,800.00 | 0.00 | 0.00 | 0.00 |
| Rents & Leases | 0.00 | 0.00 | 0.00 | 3,860.00 | 4,200.00 | 4,200.00 | 0.00 | 0.00 | 0.00 |
| Total Revenues | 545,214.25 | 479,956.00 | 459,820.00 | 437,871.67 | 319,826.00 | 301,090.00 | 26,471.08 | 34,800.00 | 27,000.00 |
| Salaries & Employee Benefits | | | | | | | | | |
| Wages | 74,951.13 | 92,004.00 | 98,000.00 | 74,951.06 | 92,004.00 | 98,000.00 | 0.00 | 0.00 | 0.00 |
| Director Fees | 1,604.50 | 1,506.00 | 3,800.00 | 1,554.50 | 1,506.00 | 3,800.00 | 0.00 | 0.00 | 0.00 |
| Retirement | 4,945.76 | 8,200.00 | 5,200.00 | 4,945.60 | 8,200.00 | 5,200.00 | 0.00 | 0.00 | 0.00 |
| Payroll Taxes | 6,749.85 | 10,200.00 | 8,820.00 | 6,748.77 | 10,200.00 | 8,820.00 | 0.00 | 0.00 | 0.00 |
| Health Insurance | 12,681.42 | 12,000.00 | 12,000.00 | 12,681.43 | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 0.00 |
| Life Insurance | 393.99 | 360.00 | 400.00 | 393.90 | 360.00 | 400.00 | 0.00 | 0.00 | 0.00 |
| Workers Compensation Ins | 8,529.28 | 8,004.00 | 7,500.00 | 8,716.86 | 7,008.00 | 6,200.00 | 0.00 | 0.00 | 0.00 |
| Total Salaries & Emp Ben | 109,755.83 | 132,274.00 | 135,720.00 | 107,893.34 | 131,278.00 | 132,420.00 | 0.00 | 0.00 | 0.00 |
| Services & Supplies | | | | | | | | | |
| Accounting | 2,850.23 | 3,240.00 | 3,000.00 | 2,850.24 | 3,240.00 | 3,000.00 | 0.00 | 0.00 | 0.00 |
| Audit | 8,279.00 | 6,000.00 | 6,175.00 | 8,279.00 | 6,000.00 | 6,175.00 | 0.00 | 0.00 | 0.00 |
| Bank Charges | 6.00 | 100.00 | 60.00 | 0.00 | 100.00 | 80.00 | 0.00 | 0.00 | 0.00 |
| Engineering | 41,210.95 | 20,000.00 | 80,004.00 | 52,849.40 | 16,800.00 | 80,004.00 | 2,051.74 | 3,000.00 | 3,000.00 |
| Fees & Permits | 21,092.09 | 15,600.00 | 24,008.00 | 2,146.50 | 13,800.00 | 4,000.00 | 0.00 | 0.00 | 0.00 |
| Employee Schooling | 292.50 | 3,000.00 | 3,000.00 | 42.50 | 3,000.00 | 3,000.00 | 0.00 | 0.00 | 0.00 |
| Miscellaneous | 395.49 | 120.00 | 480.00 | 393.98 | 120.00 | 480.00 | 0.00 | 0.00 | 0.00 |
| Communications | 3,219.23 | 2,500.00 | 3,200.00 | 3,138.27 | 2,600.00 | 3,200.00 | 0.00 | 0.00 | 0.00 |
| Uniforms | 1,281.83 | 2,000.00 | 1,300.00 | 1,251.87 | 2,000.00 | 1,300.00 | 0.00 | 0.00 | 0.00 |
| Insurance - General | 5,945.12 | 10,008.00 | 7,000.00 | 5,845.13 | 10,008.00 | 7,000.00 | 0.00 | 0.00 | 0.00 |
| Legal | 5,482.75 | 6,000.00 | 6,000.00 | 5,482.78 | 6,000.00 | 6,000.00 | 225.00 | 0.00 | 250.00 |
| Medical | 0.00 | 100.00 | 100.00 | 0.00 | 100.00 | 100.00 | 0.00 | 0.00 | 0.00 |
| Equip Maint - Walls | 65,150.99 | 25,000.00 | 50,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Equip Maint - Trucks | 372.85 | 2,004.00 | 1,200.00 | 381.73 | 2,004.00 | 1,200.00 | 0.00 | 0.00 | 0.00 |
| Equip Maint - General | 282.65 | 1,500.00 | 1,000.00 | 2,600.70 | 4,008.00 | 3,000.00 | 0.00 | 0.00 | 0.00 |
| Equip Maint - Treatment Plant | 0.00 | 0.00 | 0.00 | 9,731.33 | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 0.00 |
| Structure, Impr, Grnd Maint | 10,064.05 | 7,000.00 | 9,008.00 | 11,480.82 | 11,400.00 | 11,400.00 | 0.00 | 0.00 | 0.00 |
| Office Expenses | 6,001.71 | 5,000.00 | 5,000.00 | 5,450.83 | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 0.00 |
| Postage & Billing | 2,161.98 | 2,180.00 | 2,100.00 | 2,007.57 | 2,160.00 | 1,800.00 | 0.00 | 0.00 | 0.00 |
| Software | 891.47 | 2,500.00 | 2,400.00 | 891.47 | 2,500.00 | 2,400.00 | 0.00 | 0.00 | 0.00 |
| Public/Legal Notices | 83.99 | 120.00 | 100.00 | 83.99 | 120.00 | 100.00 | 0.00 | 0.00 | 0.00 |
| Rents & Leases | 539.37 | 1,006.00 | 530.00 | 625.03 | 1,008.00 | 530.00 | 0.00 | 0.00 | 0.00 |
| Small Tools | 575.35 | 600.00 | 600.00 | 693.65 | 600.00 | 600.00 | 0.00 | 0.00 | 0.00 |
| Subscriptions | 602.97 | 500.00 | 500.00 | 602.98 | 500.00 | 500.00 | 0.00 | 0.00 | 0.00 |
| Special Expenses | 248.00 | 600.00 | 300.00 | 0.00 | 800.00 | 300.00 | 0.00 | 0.00 | 0.00 |
| Supplies - Well & Plant | 2,270.08 | 6,800.00 | 3,200.00 | 5,088.54 | 6,800.00 | 5,600.00 | 0.00 | 0.00 | 0.00 |
| Supplies - Safety | 604.31 | 1,600.00 | 1,000.00 | 731.89 | 1,500.00 | 1,000.00 | 0.00 | 0.00 | 0.00 |

Final July 1, 2012 through June 30, 2013 Budget12/14/2012

| IVANHOE PUBLIC UTILITY | | | | | | | | | |
|--|----------------|----------------|----------------|--------------|--------------|--------------|---------------|--------------|--------------|
| July 1, 2012 through June 30, 2013 Projected Cash Flow | | | | | | | | | |
| | Water | | | Sewer | | | Street Lights | | |
| | June 30 2012 | June 30 2012 | June 30 2013 | June 30 2012 | June 30 2012 | June 30 2013 | June 30 2012 | June 30 2012 | June 30 2013 |
| | Prelim YTD | Budget | Final | Prelim YTD | Budget | Final | Prelim YTD | Budget | Final |
| Projected Net Income (Loss) | 203,784.50 | 161,522.00 | 37,231.00 | 187,484.66 | 51,308.00 | (14,299.00) | 14,845.77 | 16,800.00 | 14,750.00 |
| A is in Operations no Requiring Cash | | | | | | | | | |
| Cash Provided by | | | | | | | | | |
| Decrease (Increase) Receivables | (12,472.93) | 0.00 | 0.00 | (15,928.10) | 0.00 | 0.00 | (2,889.82) | 0.00 | 0.00 |
| Increase (Decrease) Payables | 5,569.99 | 0.00 | 0.00 | 5,685.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Loss | | | | | | | | | |
| Cash Expended for | | | | | | | | | |
| Fixed Assets | | | | | | | | | |
| Plant & Equipment | (464.35) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Capital Expenditures - Water Lines/Meter Installation | (36,000.00) | (25,000.00) | (25,000.00) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Capital Expenditures - Valves | (20,000.00) | (20,000.00) | (20,000.00) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Capital Expenditures - Land | 0.00 | (25,000.00) | (25,000.00) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Capital Expenditures - Contingencies | (20,000.00) | 0.00 | 0.00 | (40,000.00) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Loan Principal Payments | | | | | | | | | |
| SRF Loan | (37,356.18) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cash Increase (Decrease) for Period | 158,101.03 | 85,522.00 | (32,769.00) | 177,251.47 | 11,308.00 | (14,299.00) | 11,775.95 | 16,800.00 | 14,750.00 |
| Beginning Cash Balances | 3,174,585.60 | 3,174,585.60 | 3,333,686.63 | 946,550.94 | 946,550.94 | 1,123,802.41 | 21,337.77 | 21,337.77 | 33,113.72 |
| Ending Cash Balances | 3,333,686.63 | 3,260,107.60 | 3,300,917.63 | 1,123,802.41 | 957,858.94 | 1,109,503.41 | 33,113.72 | 38,137.77 | 47,863.72 |
| Cash Balance Before Reserves | 3,333,686.63 | 3,260,107.60 | 3,300,917.63 | 1,123,802.41 | 957,858.94 | 1,109,503.41 | 33,113.72 | 38,137.77 | 47,863.72 |
| Reserve Funds | | | | | | | | | |
| Wells | (1,429,838.25) | (1,429,838.25) | (1,429,838.25) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Treatment Plant | 0.00 | 0.00 | 0.00 | (584,447.39) | (584,447.39) | (584,447.39) | 0.00 | 0.00 | 0.00 |
| SRF | (145,349.10) | (145,349.10) | (145,349.10) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Air Compressor | (12,098.10) | (12,098.10) | (12,098.10) | (12,097.78) | (12,097.78) | (12,097.78) | 0.00 | 0.00 | 0.00 |
| Non Specific Equipment | (11,046.76) | (11,046.76) | (11,046.76) | (11,046.75) | (11,046.75) | (11,046.75) | 0.00 | 0.00 | 0.00 |
| Pickup Trucks | (21,167.40) | (21,167.40) | (21,167.40) | (15,782.09) | (15,782.09) | (15,782.09) | 0.00 | 0.00 | 0.00 |
| Site Fences | (29,480.02) | (29,480.02) | (29,480.02) | (33,886.33) | (33,886.33) | (33,886.33) | 0.00 | 0.00 | 0.00 |
| Replacement | 0.00 | 0.00 | 0.00 | (54,707.73) | (54,707.73) | (54,707.73) | 0.00 | 0.00 | 0.00 |
| er | 0.00 | 0.00 | 0.00 | (18,937.32) | (18,937.32) | (18,937.32) | 0.00 | 0.00 | 0.00 |
| Working Machine | 0.00 | 0.00 | 0.00 | (27,353.81) | (27,353.81) | (27,353.81) | 0.00 | 0.00 | 0.00 |
| Manhole Replacement | 0.00 | 0.00 | 0.00 | (16,570.11) | (16,570.11) | (16,570.11) | 0.00 | 0.00 | 0.00 |
| Standby Generator | 0.00 | 0.00 | 0.00 | (22,083.60) | (22,083.60) | (22,083.60) | 0.00 | 0.00 | 0.00 |
| Connection Fees | (90,846.24) | (90,846.24) | (90,846.24) | (82,602.82) | (82,602.82) | (82,602.82) | 0.00 | 0.00 | 0.00 |
| Cash Balance Available for Use | 1,583,878.76 | 1,520,289.73 | 1,561,109.76 | 244,486.47 | 76,553.00 | 230,167.47 | 33,113.72 | 38,137.77 | 47,863.72 |
| Bank Balance End of Period | | | | | | | | | |
| Cash In Till | | | | | | | | | |
| Checking - SRF | | | | | | | | | |
| Checking - Valley Business Bank | | | | | | | | | |
| MM - Valley Business Bank | | | | | | | | | |
| LAF | | | | | | | | | |
| CD 1848 - Valley Business Bank | | | | | | | | | |
| Ending Cash Balances | | | | | | | | | |

Schedule No. VS-1-R
Visalia Tariff Area
RESIDENTIAL METERED SERVICE

This tariff was approved
by the California Public
Utilities Commission.
Original stamped versions
are available upon request

APPLICABILITY

Applicable to all metered water service provided to single-family residential customers.

TERRITORY

Visalia and vicinity, Tulare County.

RATES

Quantity Rates:

| | |
|---|----------|
| For the first 1,100 cubic feet, per 100 cubic feet..... | \$0.9562 |
| For the next 1,800 cubic feet, per 100 cubic feet..... | 0.9757 |
| For all over 2,900 cubic feet, per 100 cubic feet..... | 1.0928 |

Service Charge:

| | Per Meter Per Month |
|----------------------------------|------------------------|
| For 5/8 x 3/4 - inch meter | \$11.75 |
| For 3/4 - inch meter | 17.63 |
| For 1 - inch meter | 29.38 |
| For 1-1/2 - inch meter | 58.75 |
| For 2 - inch meter | 94.01 |
| For 3 - inch meter | 176.26 |
| For 4 - inch meter | 266.79 |
| For 6 - inch meter | 437.50 |
| For 8 - inch meter | 666.95 |
| For 10 - inch meter | 1,351.36 |
| For 12 - inch meter | 1,938.91 |
| For 14 - inch meter | 2,643.96 |

The service charge is a readiness-to-serve charge which is applicable to all metered service and to which is added the charge for water used computed at the quantity rates.

SPECIAL CONDITIONS

1. All bills are subject to the reimbursement fees set forth on Schedule UF.
2. All bills are subject to any applicable surcharges/surcredits on Schedules RSF, LIRA-SC and AS. (T)
3. Qualifying low-income individually metered residential customers are eligible for credits as shown on Schedule LIRA. (D)
4. A WRAM-MCBA true-up surcharge of \$0.0837 per 100 cu. ft. of water used is to be applied to the quantity rates for 18 months beginning May 3, 2012, the effective date of Advice Letter 2073-B.
5. A Temporary Interest Rate Balancing Account surcredit of \$0.18 per service per month will be applied to each bill for 12 months, beginning August 31, 2012, the effective date of Advice Letter 2084.
6. A Water Cost of Capital Memorandum Account surcredit of \$0.42 per service per month will be applied to each bill for 12 months, beginning September 1, 2012, the effective date of Advice Letter 2085.
7. A WRAM-MCBA true-up surcredit of \$0.0270 per 100 cu. ft. of water used is to be applied to the quantity rates for 12 months beginning March 15, 2013, the effective date of Advice Letter 2097.

(To be inserted by utility)

Advice Letter No. 2105
Decision No. 13-02-026

Issued by

PAUL G. TOWNSLEY
NAME
Vice President
TITLE

(To be inserted by Cal. P.U.C.)

Date Filed March 29, 2013
Effective May 1, 2013
Resolution No. -

New Sources Pilot

Community Review: Ivanhoe Community, 4,500 Population

Minutes 2/12/2014

Participants:

1. Carol Fina Office Manager 35 years living in the community
2. Cathleen Perez Board member (1 Yr), 35 years
3. Refugio Gallegos (operator)- 28 yrs with the district
4. Jose Verduzco (community resident).
5. Gilbert Barajas-Community resident and community council

Michael: review of alternatives and summary of challenges.

Feedback and questions to summary:

-Refugio has not noticed a drop in groundwater levels. Nitrates are increasing. Was also interested in knowing how successful casing certain sections of the water well is in preventing contamination. If you case a well is there a guarantee that it will not get contaminated?

-Refugio: 7 wells, 4 over the MCL (but are on standby). Well 8 is new and producing 950 gals. The standby well has TCP (4), currently only using 3 wells and ok with capacity. Well 3 shut down with DBCP,

-Refugio: direct one well with nitrates for school yard or something to keep it moving.

- Refugio: can nitrates affect washing down fruit?

-Carol: Nitrate impact on infants.

-8,4,6 (nitrates are close to MCL)=Good wells

-Refugio: older valves are better than the new ones because of the seals.

Questions:

Have we captured adequately capture the water needs of your district?

- Jose: Replaced the lines lateral from the meter to the house- replaced it with plastic much better. The water used to come out brown.
- Refugio: Financial challenge for residents to replace the lateral connection from home to meter.

Potential Alternatives and Feedback:

1. ADD BLENDING***
2. New water supply wells
 - a. Already pursuing this alternative

3. Connection to the City of Visalia (Cal Water)
 - a. Not during my life time- Carol because it will take too long to happen.
 - b. Waste water treatment plant will be in the urban boundary of the city of Visalia
 - c. Need to make a distinguish that this option is more complicated because the ownership of the water system would likely go from public to private.
 - d. Least preferred
4. Utilization of non-potable well(s) for large irrigation areas (school)-well 7
 - a. Refugio: Would be one vehicle to consider
 - b. Carol: would have to check with the State to ensure this is allowed,
5. Replacement of small (potentially leaking) water distribution pipelines
 - a. Carol: done a lot on the system, homes not replacing pipes from home to meter
 - b. Lots of leaks on the personal property- the PUD cannot do anything about.
 - c. The PUD is on meters.

Feedback in general to alternatives:

Cathleen: Want an alternative best for the community and clients. Income is low and folks live paycheck to paycheck.

Carol: need to balance affordability. Base rate \$16.75 base just water ~\$20-25 average for water, \$ 16.40 sewer. Commercials also on meters, good financial status because of the lawsuit for DBCP (Shell/DOW) 1987

Jose: likes alternatives: 1/2/3.

Potential Recommendations/ Feedback:

1. Change the status of well with nitrates (wells 2,6,7)
2. Construct test wells to determine viable aquifers-current funding application task
3. Perform a hydrogeological study to determine viability of groundwater resources-current funding application task
4. Consider discussion of Cal Water for future water service
5. Consider a moratorium for new connections
 - a. Carol: Moratorium of new annexation **outside** the district because of the capacity. Keller estimated per lot the amount of water needed (years ago 1999).
6. Investigate utilization of IRWM as a funding vehicle
 - a. Kaweah IRWMP
 - b. Carol on the listserve from the Kaweah IRWMP

Carol: The Ivanhoe PUD got new source because the County wanted Affordable Housing (from LA). The County paid most of the cost for the new well and expanded the ponds in order to add the apartment complex. Affordable Housing.

Questions Michael has for the district:

1. Meter use of the school?
2. Number of kids at the school?
3. Gap of what you pump and what you sell to customers?

Decision Tree Overview and Feedback:

Intent: to educate all the board members and the community. A sense of how things get done.

Step 1: Do I have a problem?

Step 2: Is there money available to evaluate the system and alternatives?

Step 3: funding options (loans, etc. any type of money has requirement)

Evaluate the 9 Alternatives Available

- Which one makes more sense (politically, financially etc.)

What did you think of the decision trees? Are they useful? What is useful about them?

-Carol: Good process, at leary at the begging because not sure, good idea, wants to learn from other communities to learn, it will go a long way to help community solve problems, likes charts, help to explain to customers why it takes so long.

-Refugio: statistics were useful, useful tool when you break it down, useful tool to route your pattern for steps and solutions.

-Board member- it explains things to be able to learn and it would also be useful for other board members too.

Next steps:

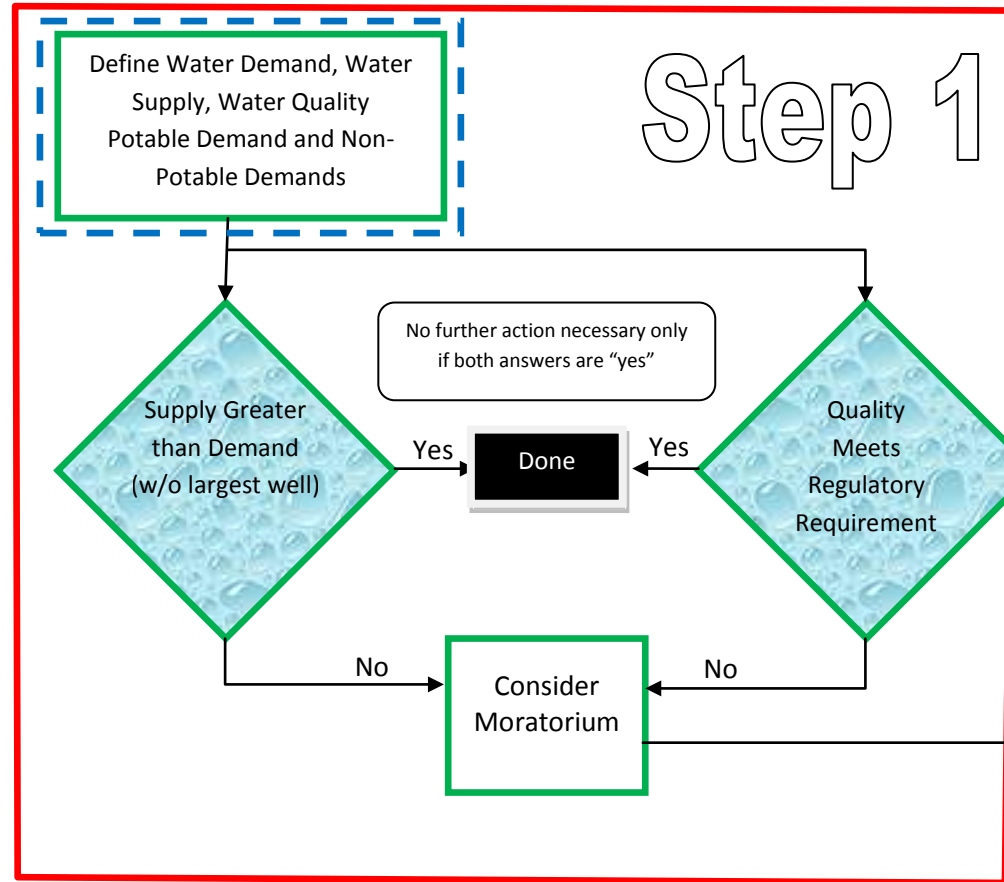
- Michael will look at blending option and get more info from the district.
- Final presentation to the board. March
- SOAC April 21, 4:30-6:30

start

New Source

Ivanhoe PUD

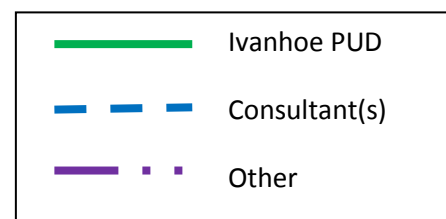
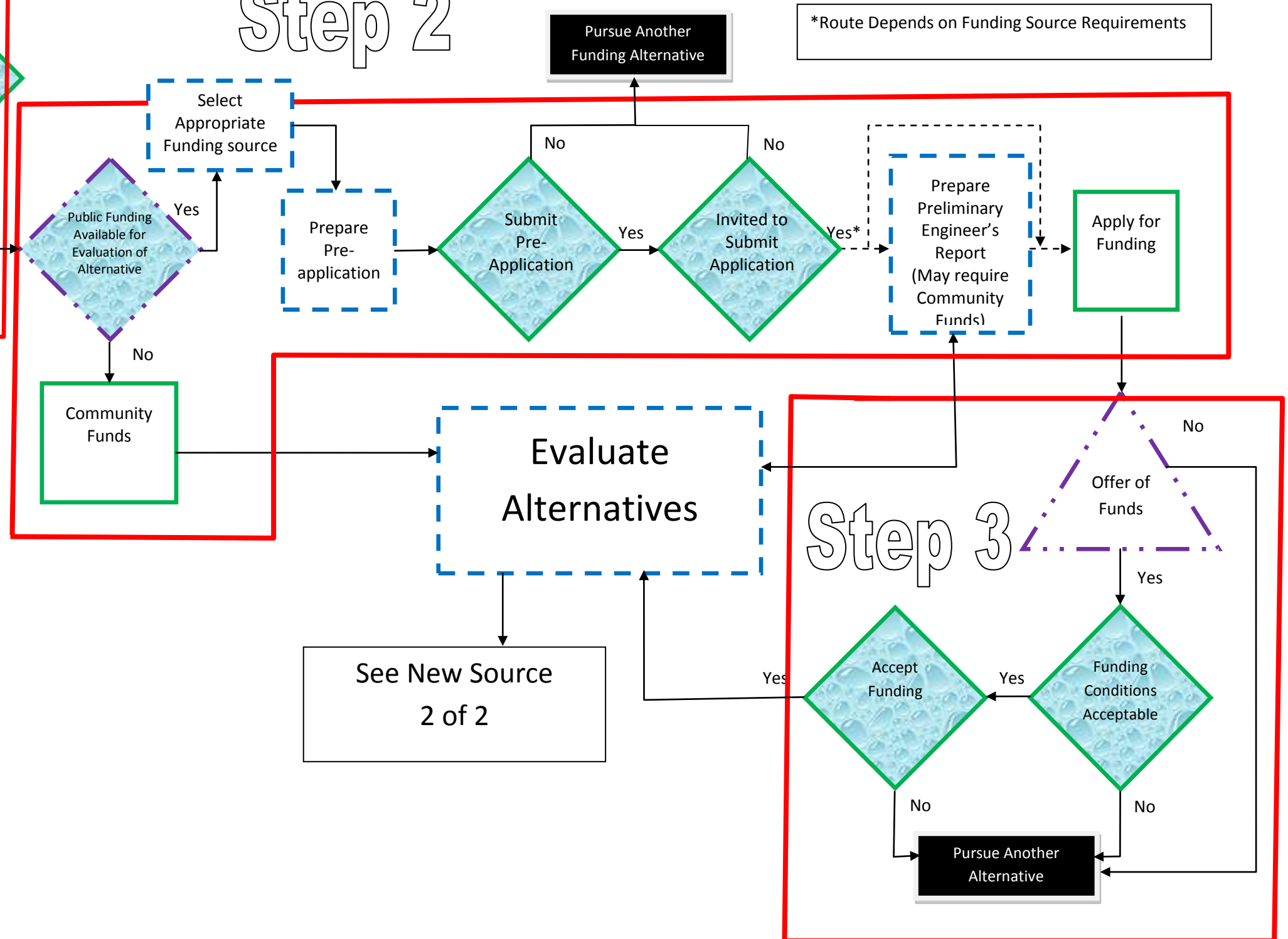
Step 1

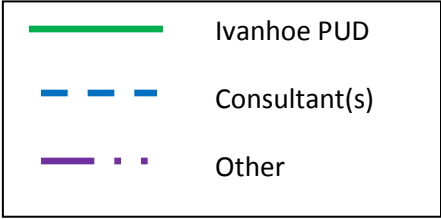
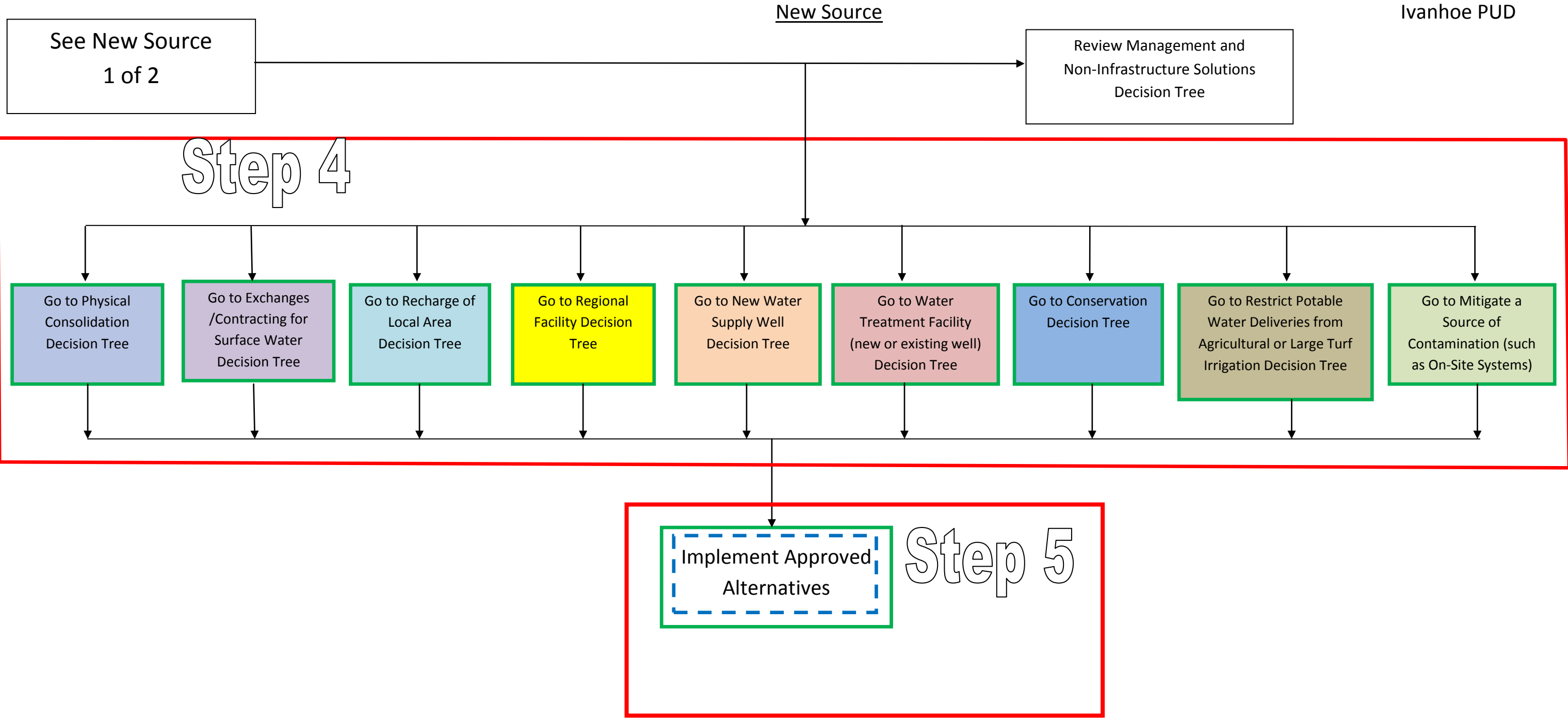


If you do not know how to answer one of the questions presented:

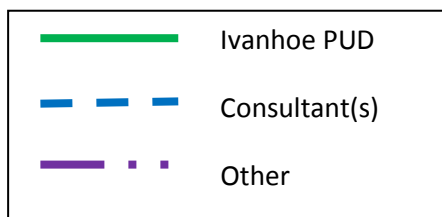
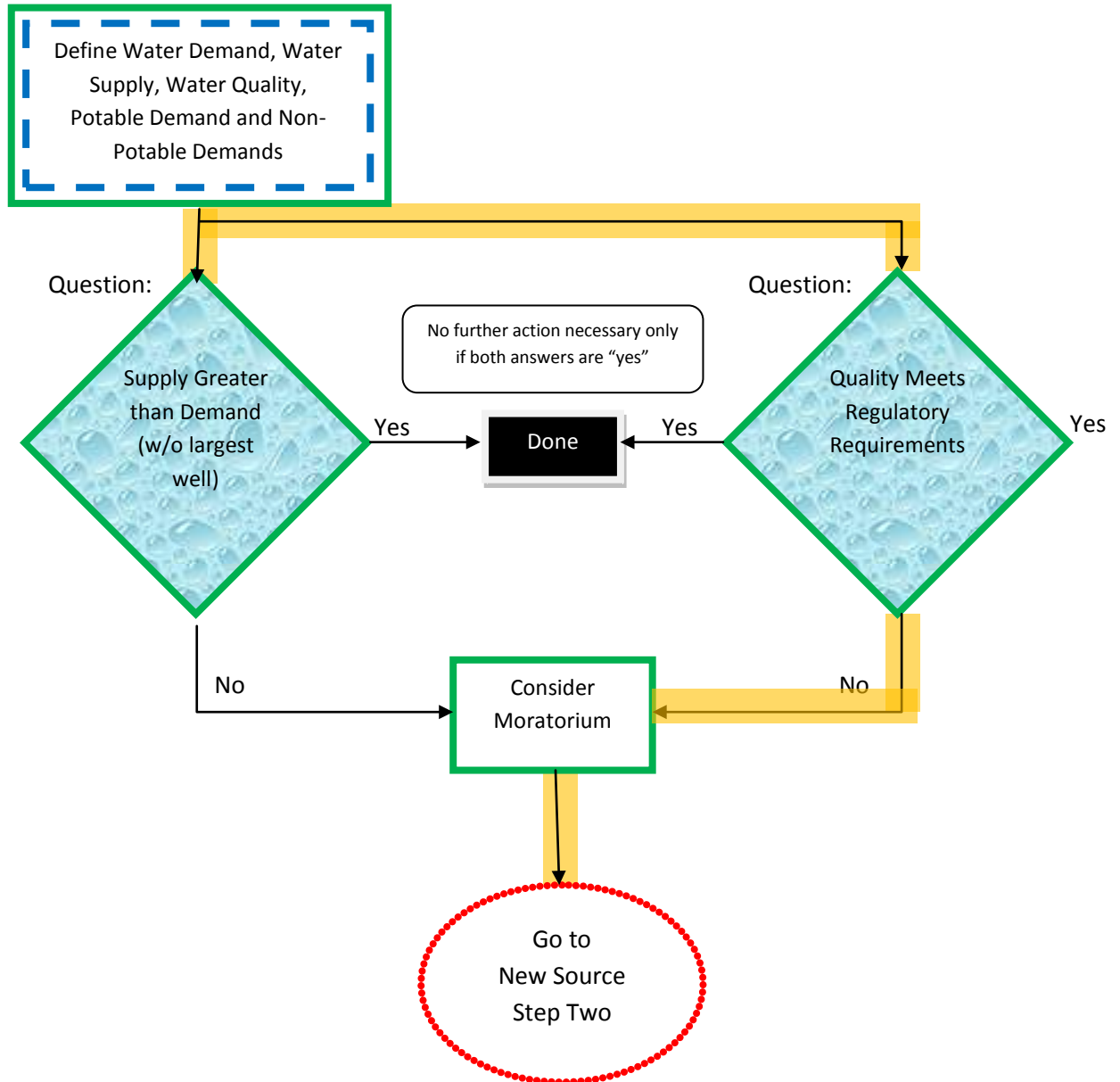
- Complete Self Assessment Worksheet (Appendix H);
- Review most recent Sanitary Survey or Inspection Report;
- Contact the California Department of Public Health; or
- Contact the local County Environmental Health Department

Step 2





Ivanhoe PUD
New Source
Step One



Ivanhoe PUD
New Source
Step One

Ivanhoe PUD

CLIENT)

Population: 4,500

Service Connections: 4,114

Residential water rates \$16.75 and \$0.49/100 cf:

Average Monthly Bill: \$25.00 / mo

MHI @36b841 (2010) 1.5% of MHI equals \$552/yr or \$46/mo

Well 1 inactive since 2005 (nitrate exceeds limit, DBCO)

Well 2 Limited use since 2005 (nitrate exceeds limit, DBCP) presence of TCP
Constructed in 1946
601 gpm
276 ft deep, perforations from 182 ft to 235 ft

Well 3 Destroyed

Well 4 Active
Constructed in 1964
363 gpm
265 ft deep, perforations from 174 ft to 179 ft

Well 5 Inactive due to high nitrate

Well 6 Limited use (high nitrates), presence of TCP
Constructed in 1984
600 gpm
425 ft deep, perforations form 230 ft to 410 ft

Well 7 Limited use (nitrate exceeds limit), presence of TCP
Constructed in 1984
578 gom
537 ft deep, perforations form 250 ft to 460 ft

Well 9 pending formal CDPH permit
Constructed in 2013
750 gpm 545 ft deep, perforations from 270 ft to 545 ft

Ivanhoe PUD

New Source

Water Demands (2012) Average – 383 gpm, Max Day – 831 gpm, Peak Hr. – 1,247 gpm

Potable

Non Potable – Unknown demand

Water Supply > Max. Day Demand without largest well (if Wells 2 and 7 are not used), however Well 6 is near to exceed NO_3

Unknown system losses

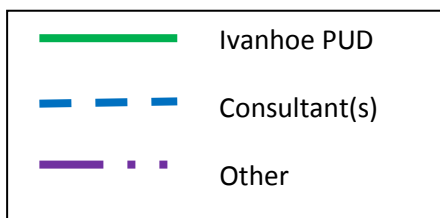
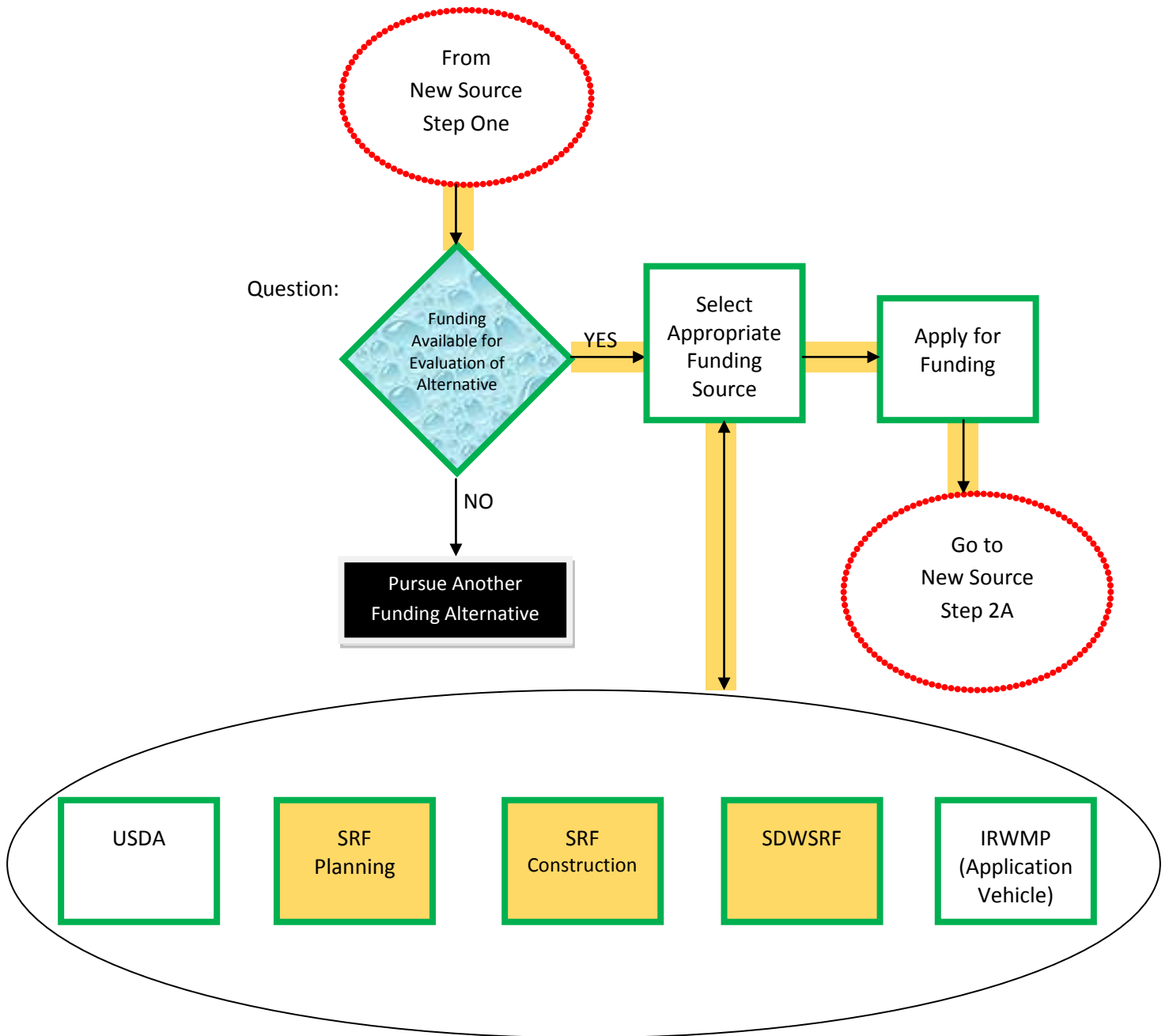
Neighboring community – Visalia

| Well | GPM | Status | Recommended Active | Largest Well out of Service |
|------|-----|--------------------------------|--------------------|-----------------------------|
| 1 | - | Inactive | | |
| 2 | 604 | Exceed NO_3 . DBCP | 601 | 1 |
| 3 | - | Destroyed | | |
| 4 | 363 | | 363 | 363 |
| 5 | - | Inactive | | |
| 6 | 600 | High NO_3 | 600 | 600 ² |
| 7 | 578 | Exceeds NO_3 | | |
| 8 | 950 | | 950 | |
| | | TOTALS | 2,514 | 963 |

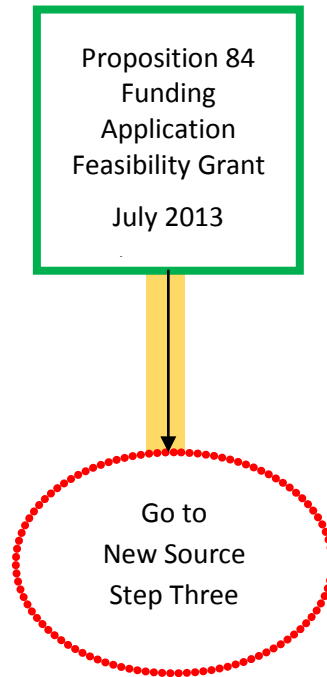
¹ Well No. 2 recently exceeded the NO_3 limit of 45 mg/l

² Well No. 6 may soon exceed the NO_3 limit of 45 mg/l

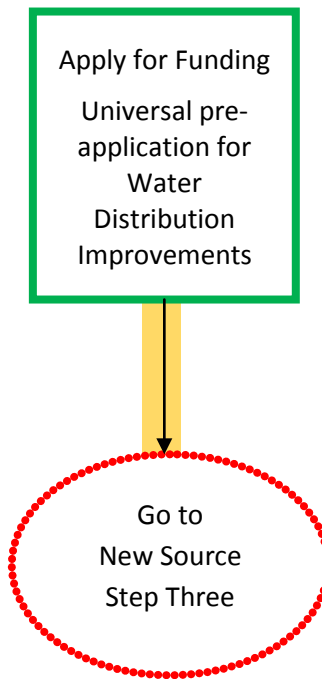
Ivanhoe PUD
New Source
Step Two



Ivanhoe PUD
New Source
Step Two A



Ivanhoe PUD
New Source
Step Two B



Ivanhoe PUD

New Source

Step Two

(list each Grant application CLIENT for)

Ivanhoe PUD SRF Application for Planning Funds

Prepared by: Ivanhoe PUD

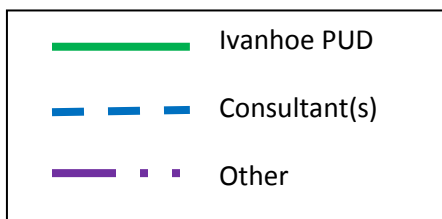
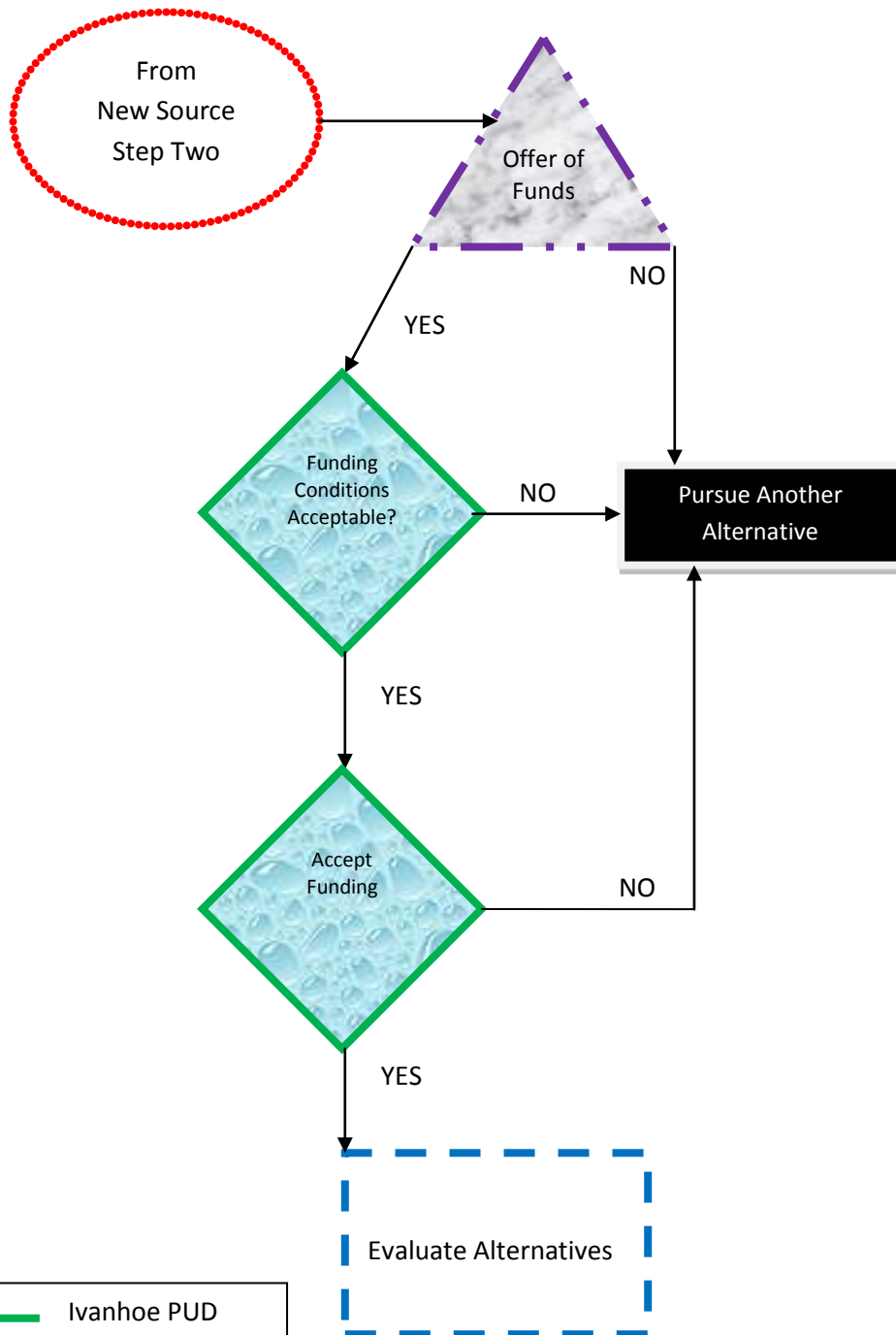
Cost to Prepare:

Source of Funds:

Timeline of Preparation

Response to Application: None

Ivanhoe PUD
New Source
Step Three



start

Physical Consolidation

Ivanhoe PUD

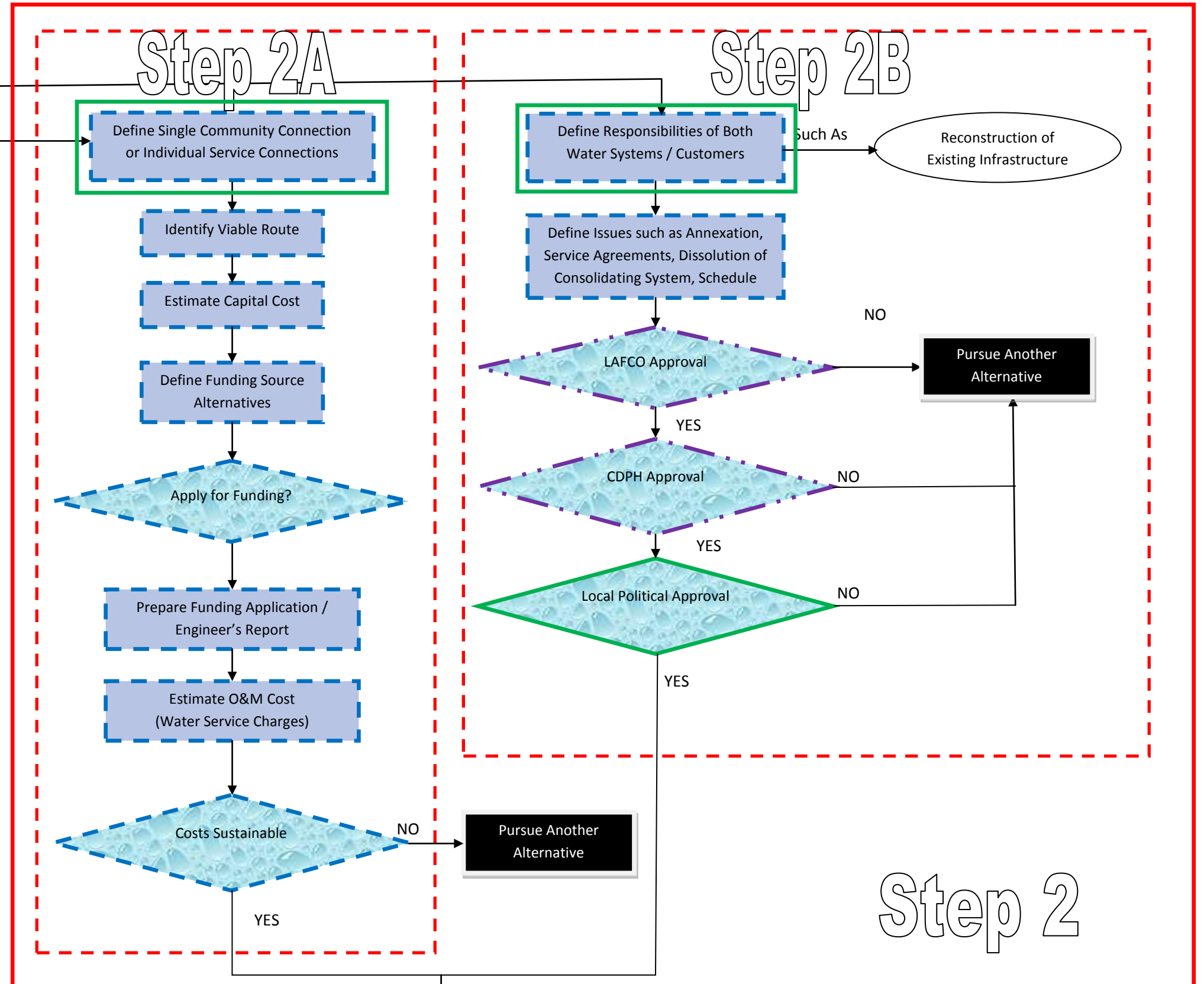
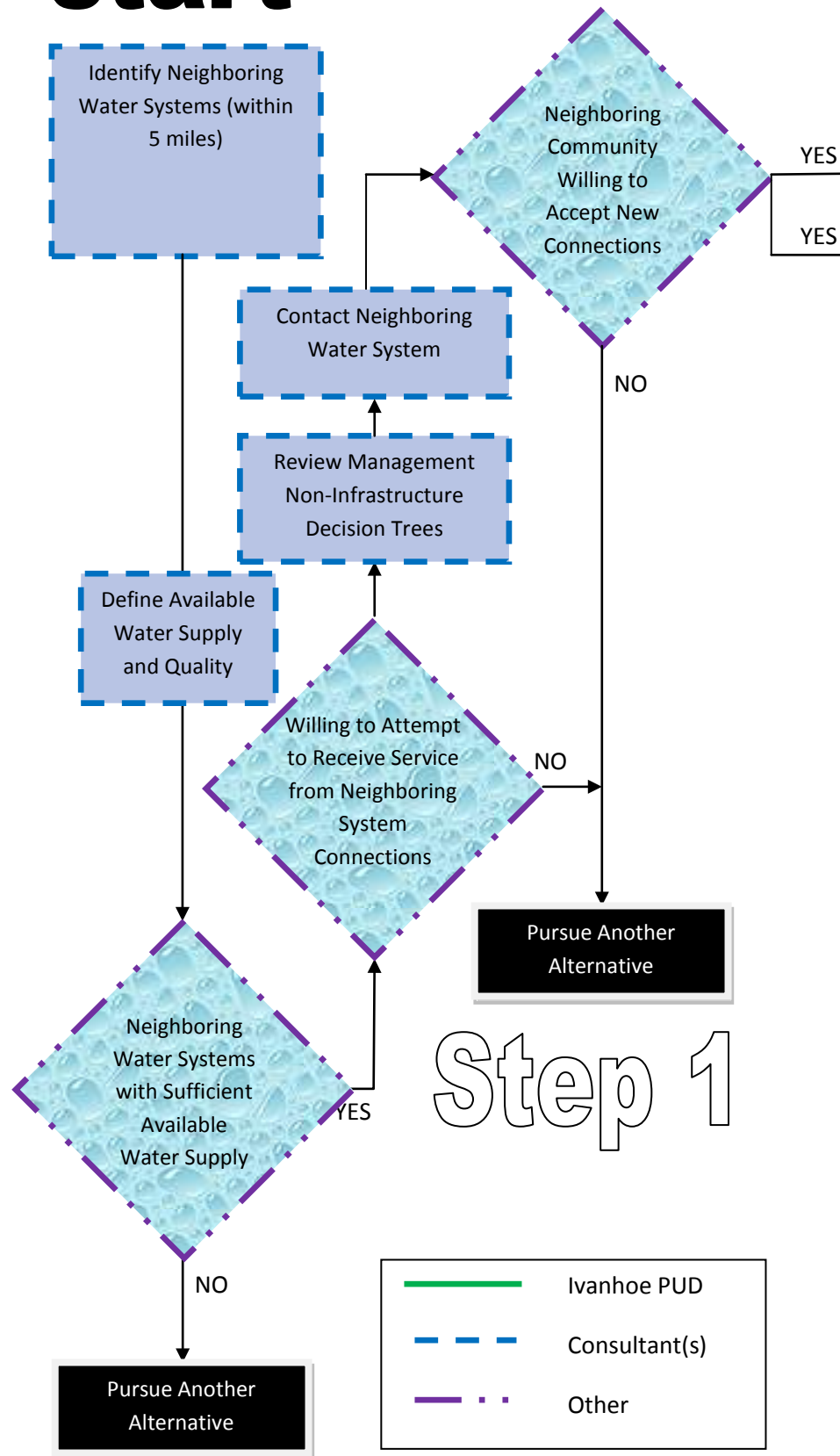
Step 2A

Step 2B

Step 1

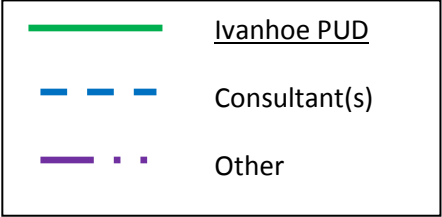
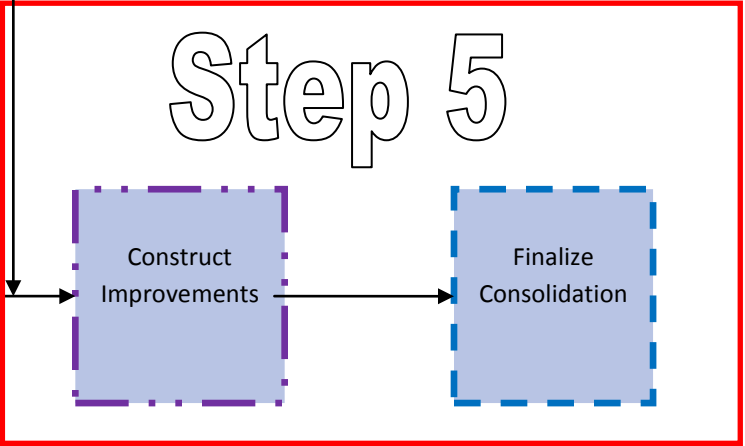
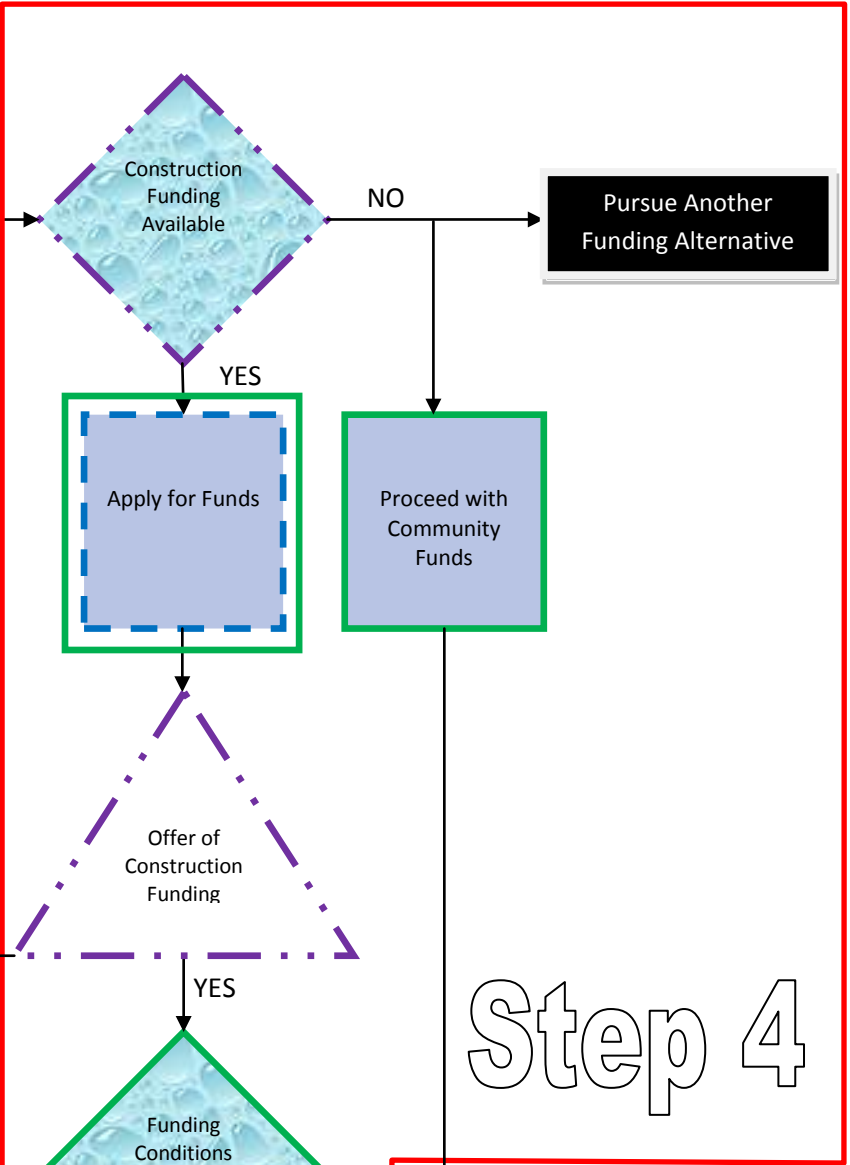
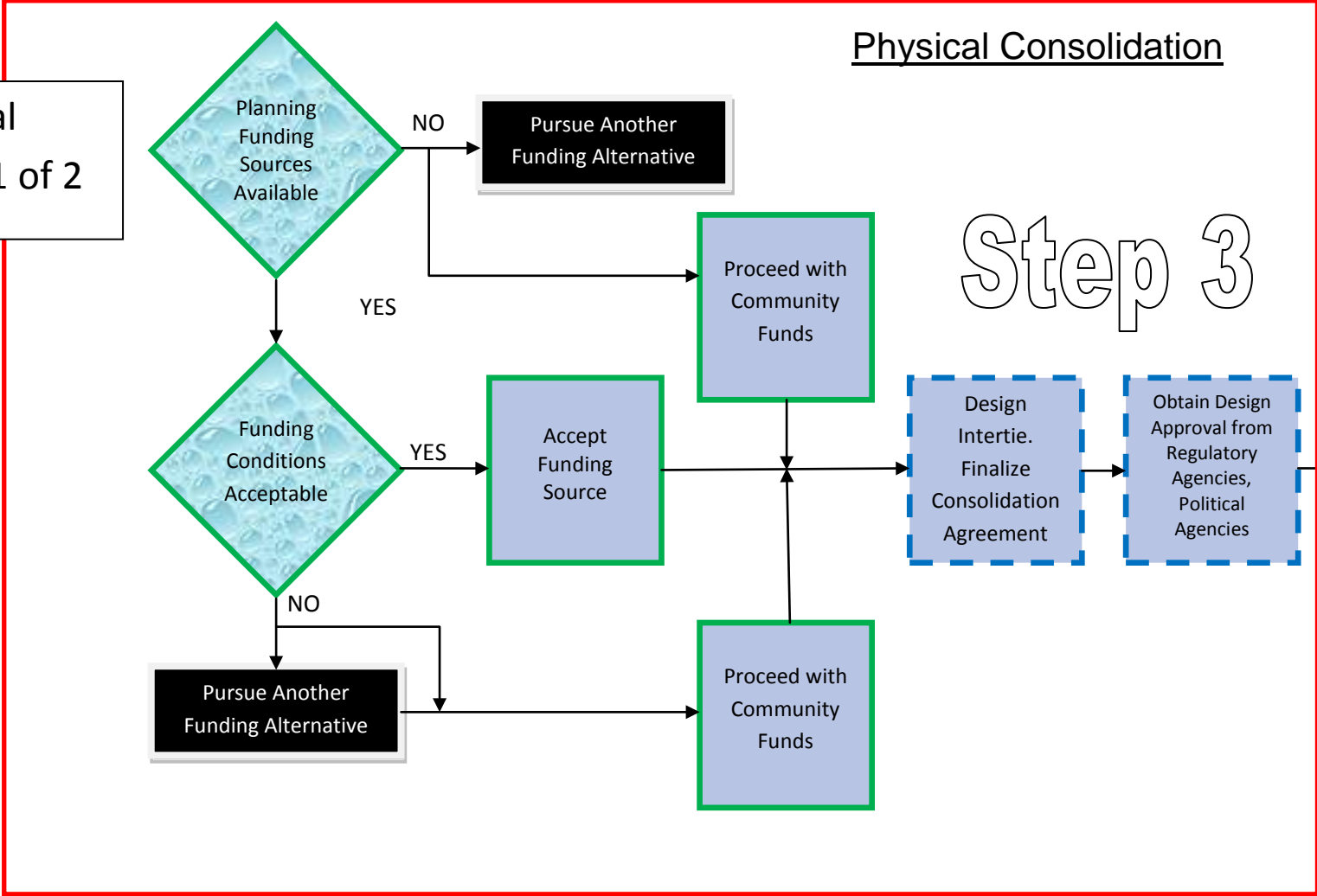
Step 2

See Physical Consolidation 2 of 2



Physical Consolidation

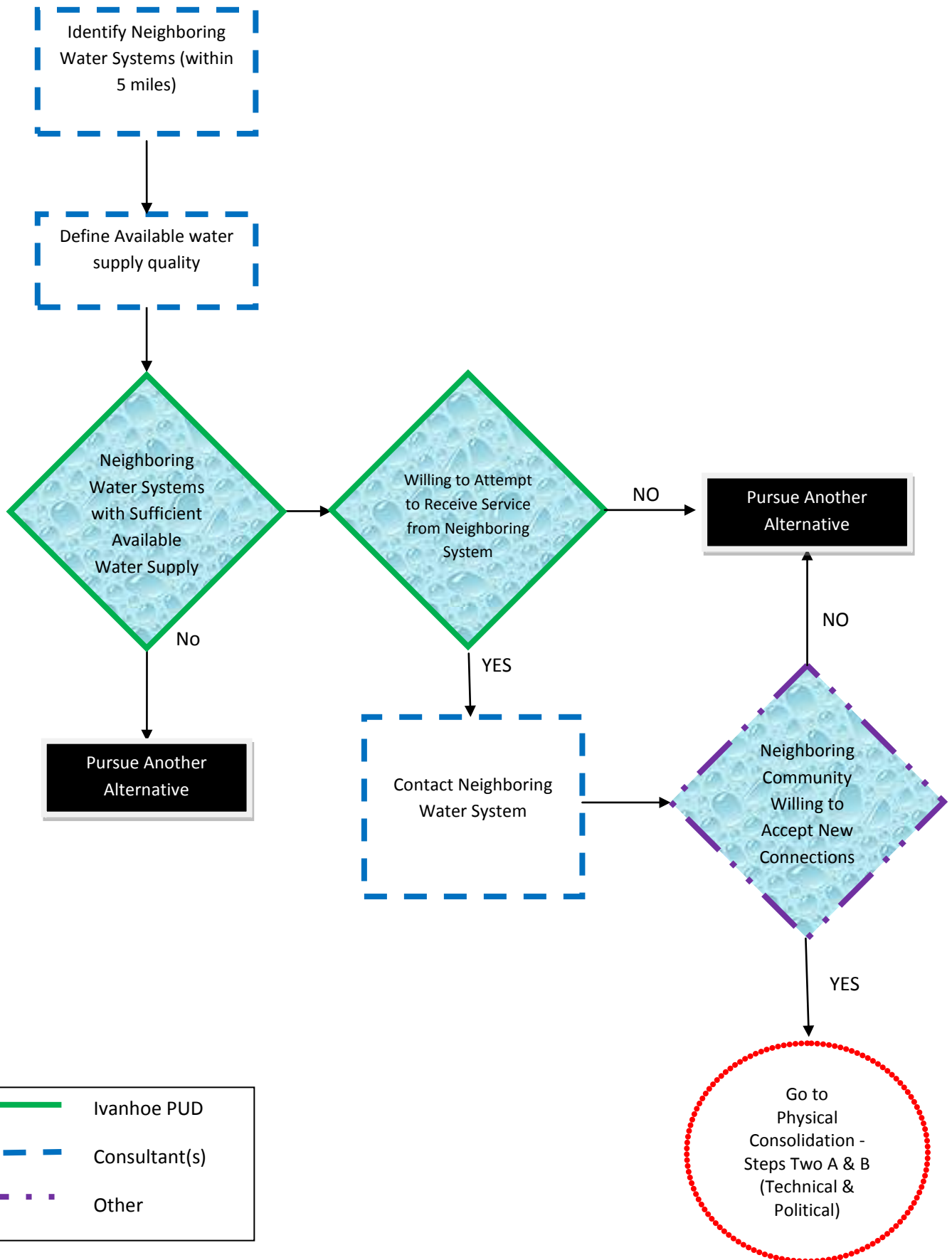
See Physical Consolidation 1 of 2



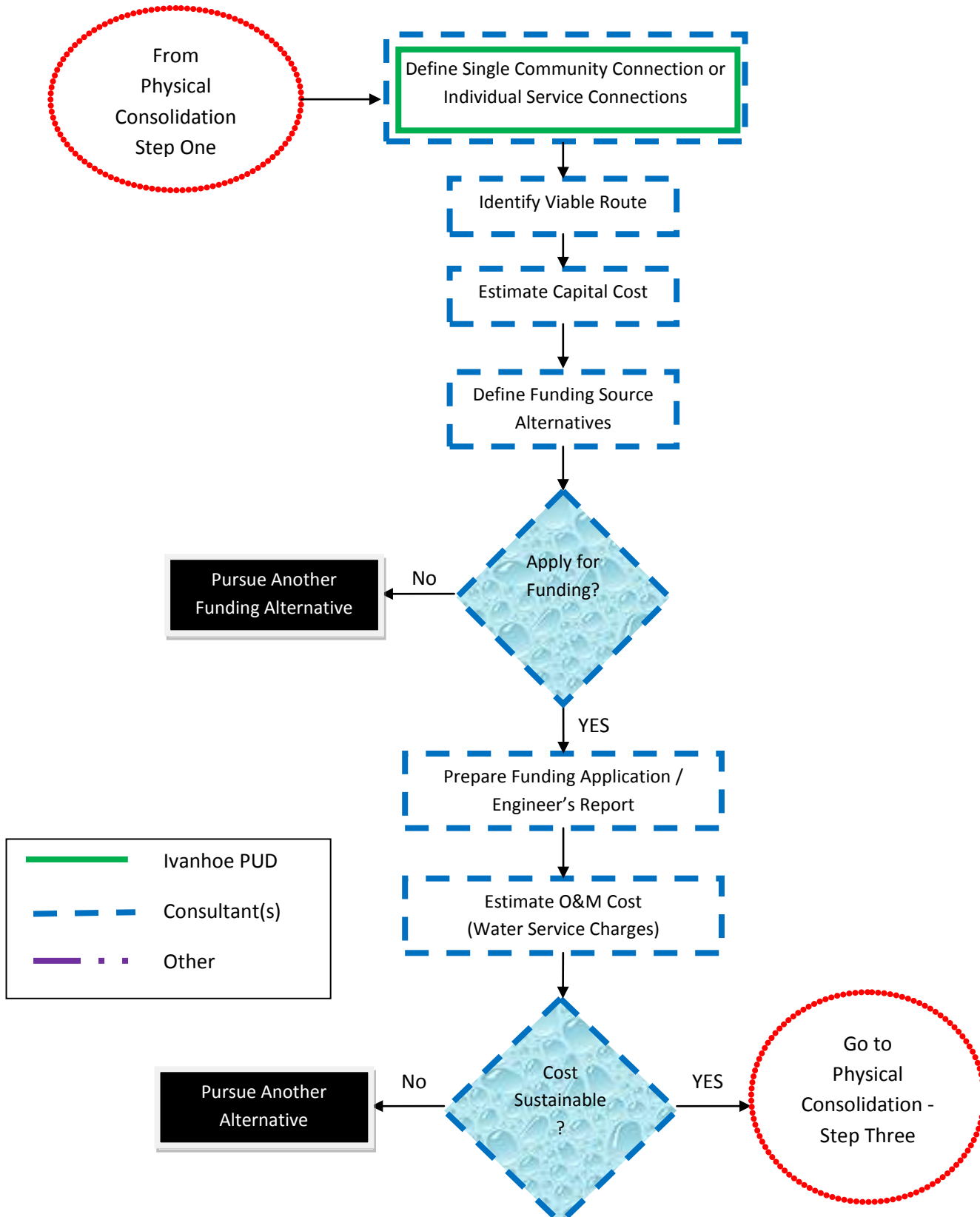
Ivanhoe PUD

Physical Consolidation

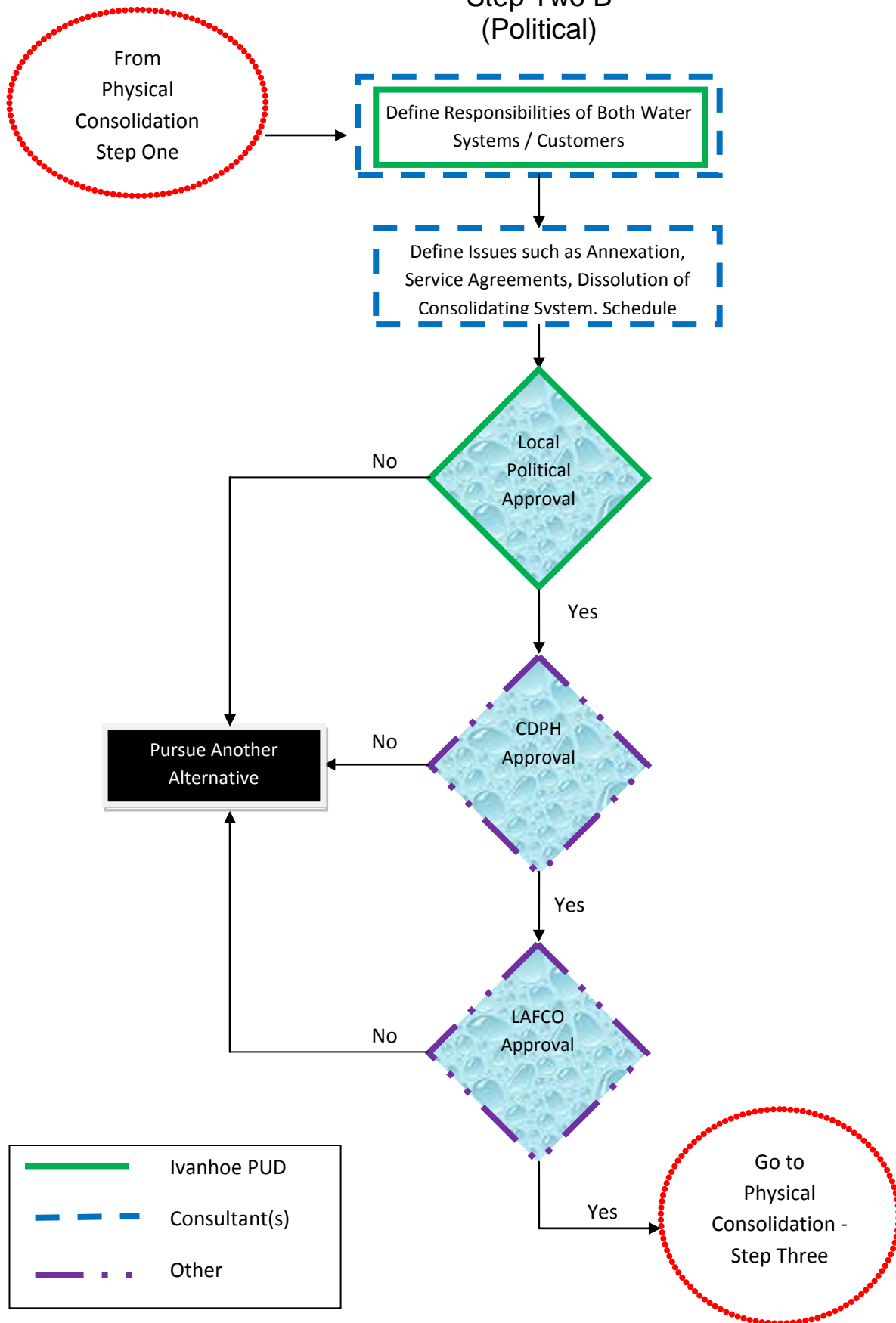
Step One



Ivanhoe PUD
Physical Consolidation
Step Two A
(Technical)



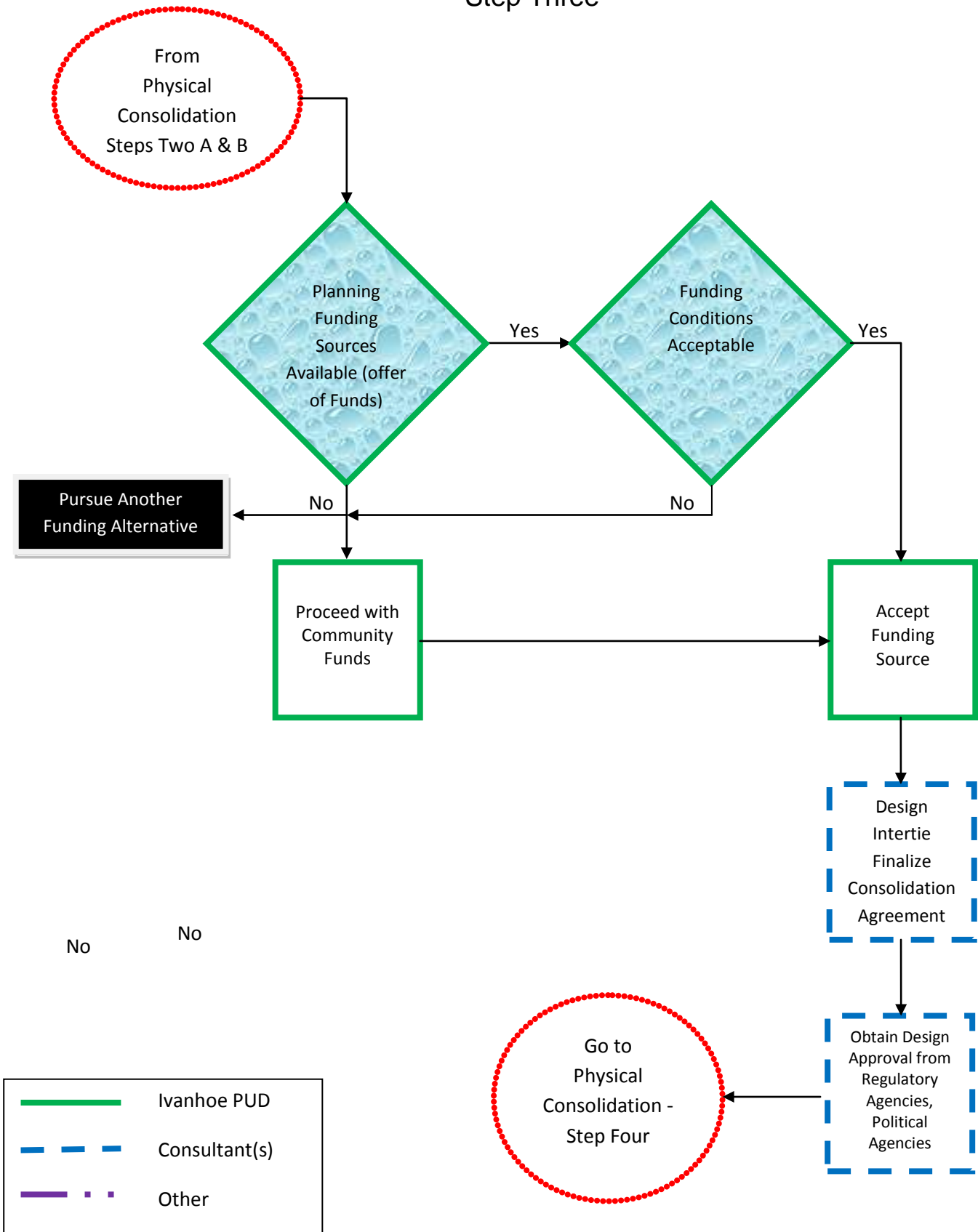
Ivanhoe PUD
Physical Consolidation
Step Two B
(Political)



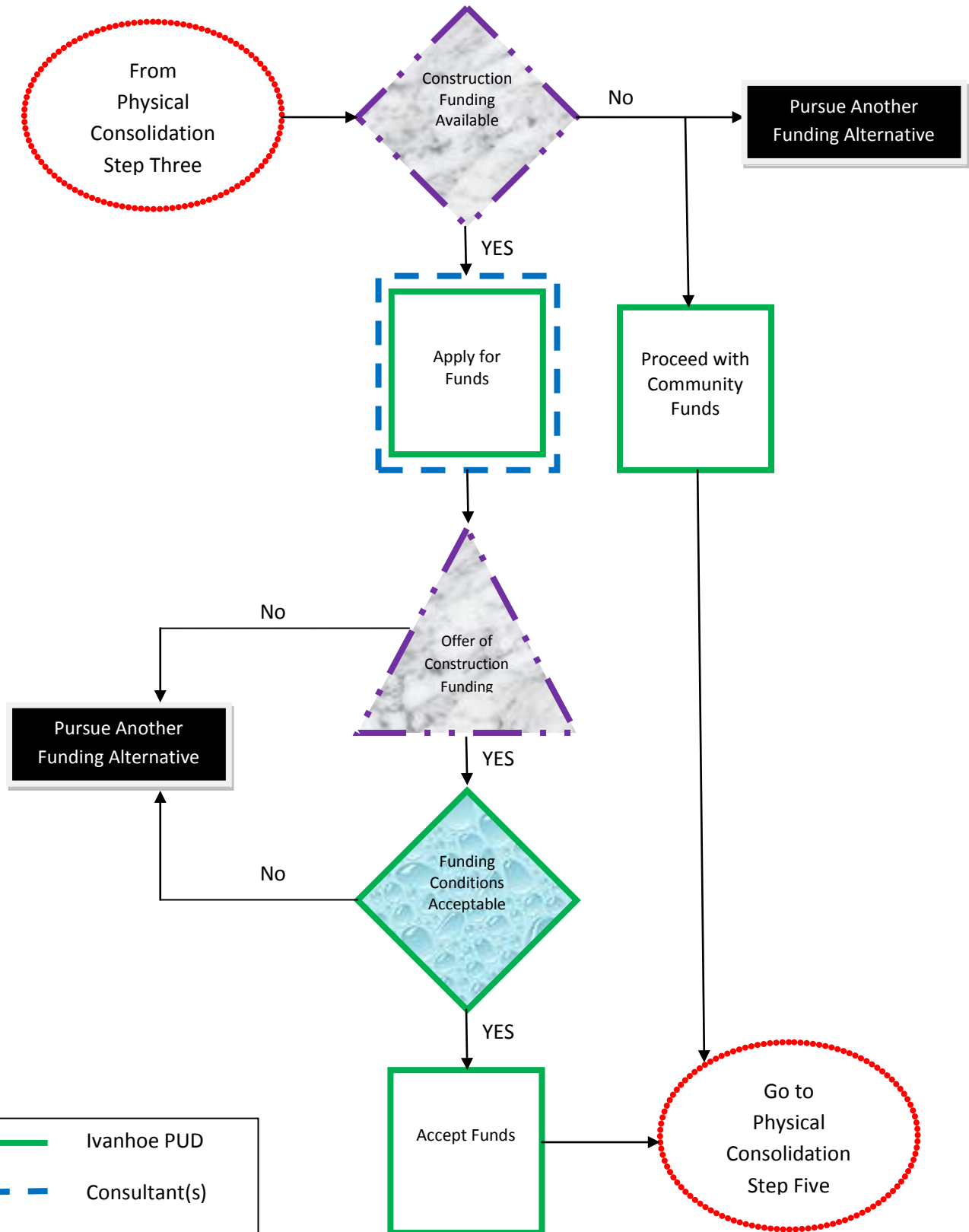
Ivanhoe PUD

Physical Consolidation

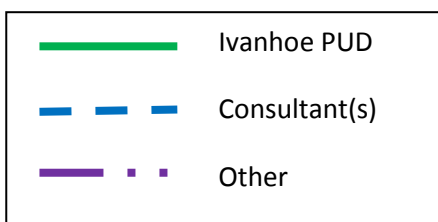
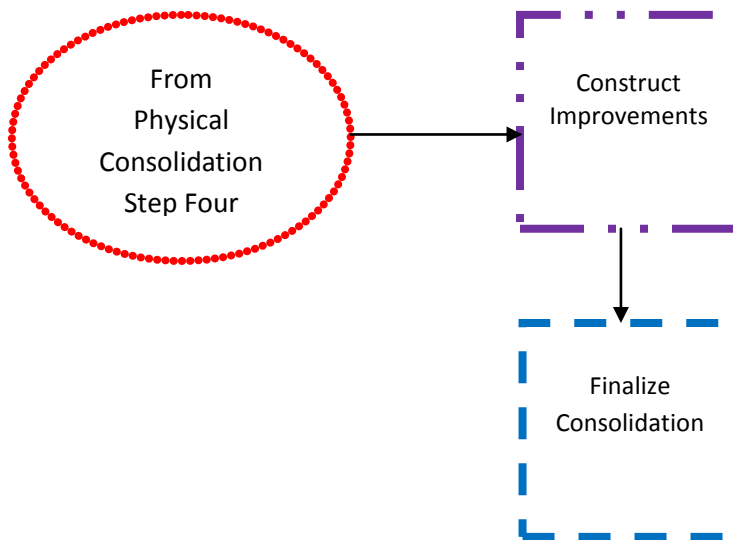
Step Three



Ivanhoe PUD
Physical Consolidation
Step Four



Ivanhoe PUD
Physical Consolidation
Step Five

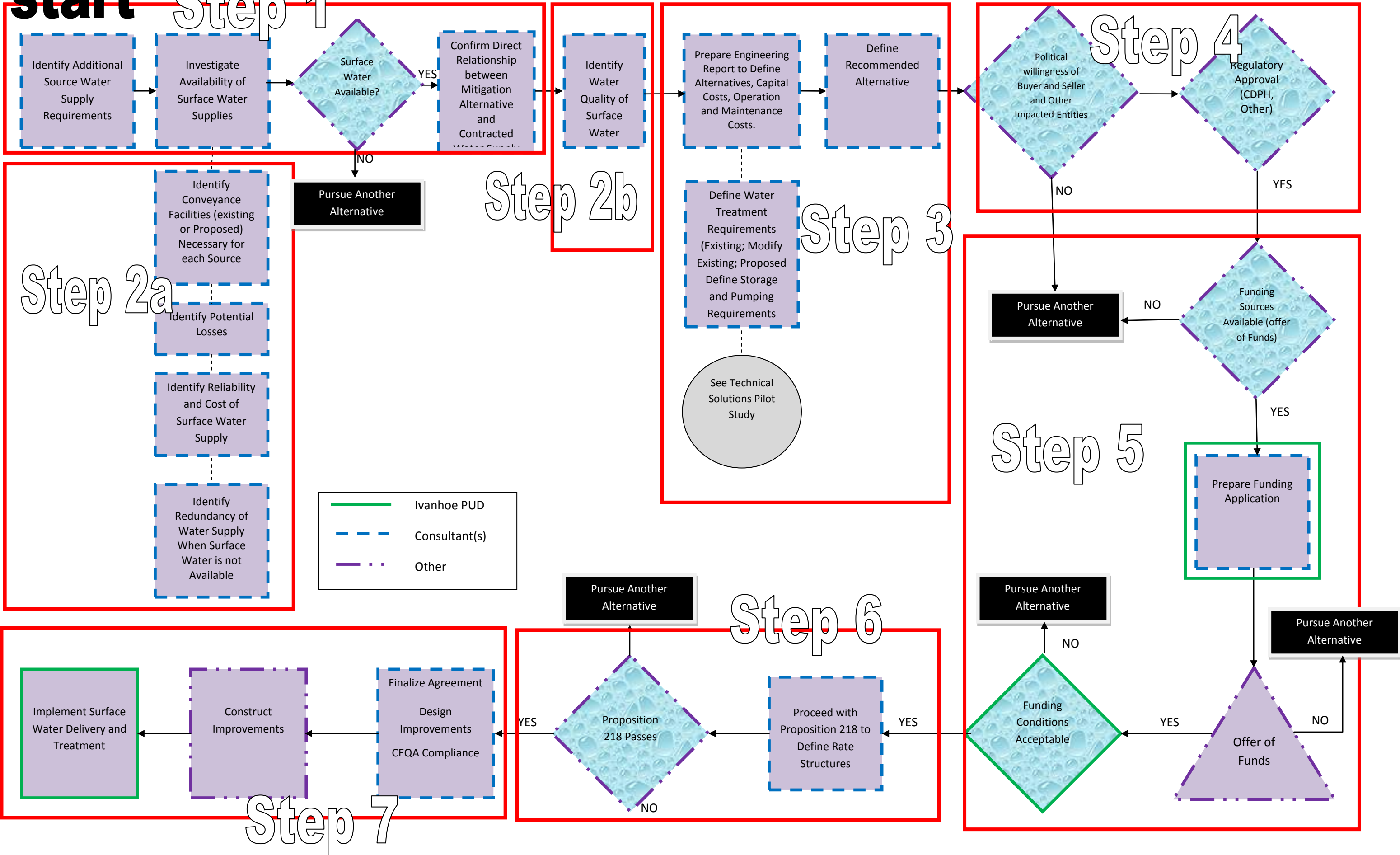


start

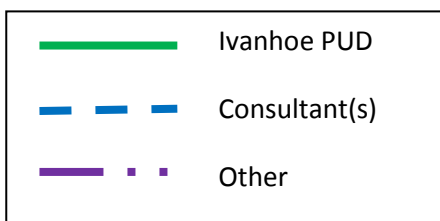
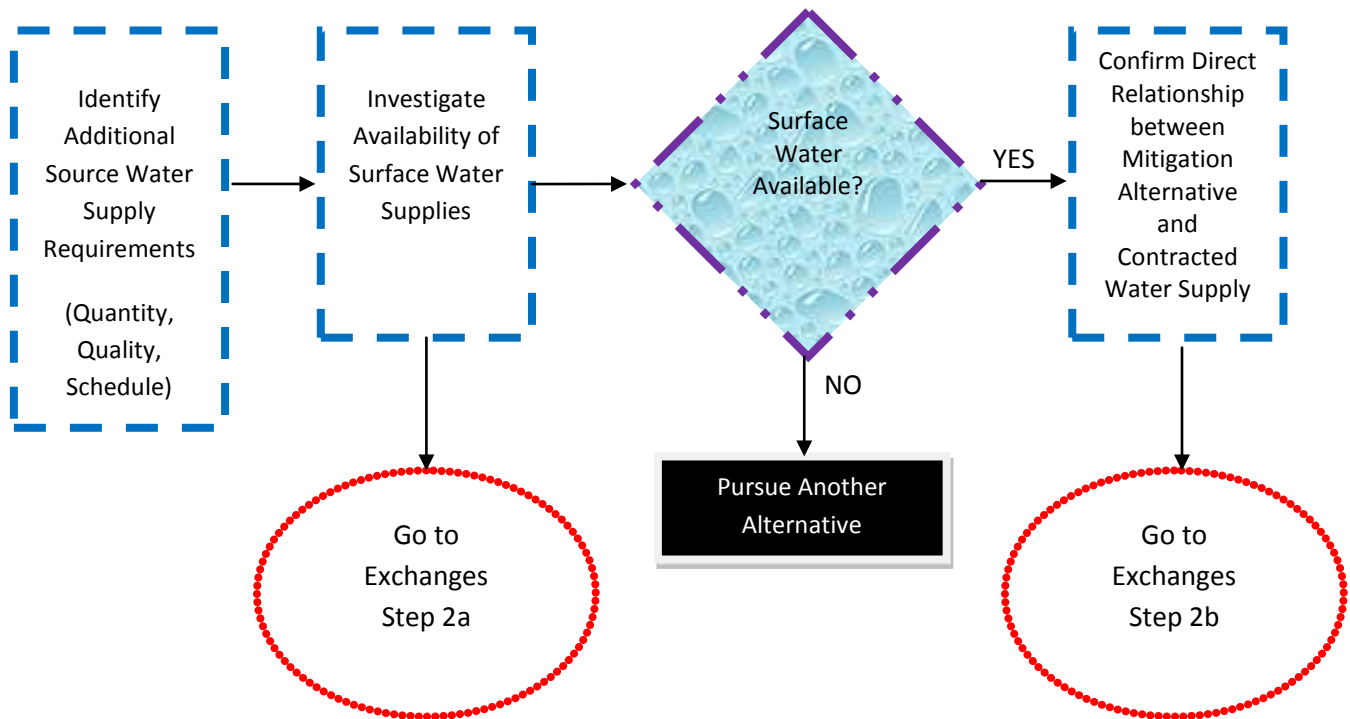
Step 1

Exchanges/Contracting for Surface Water

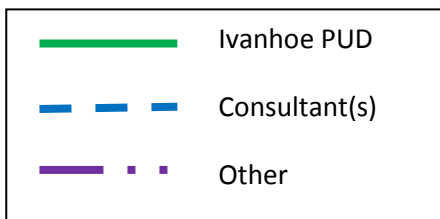
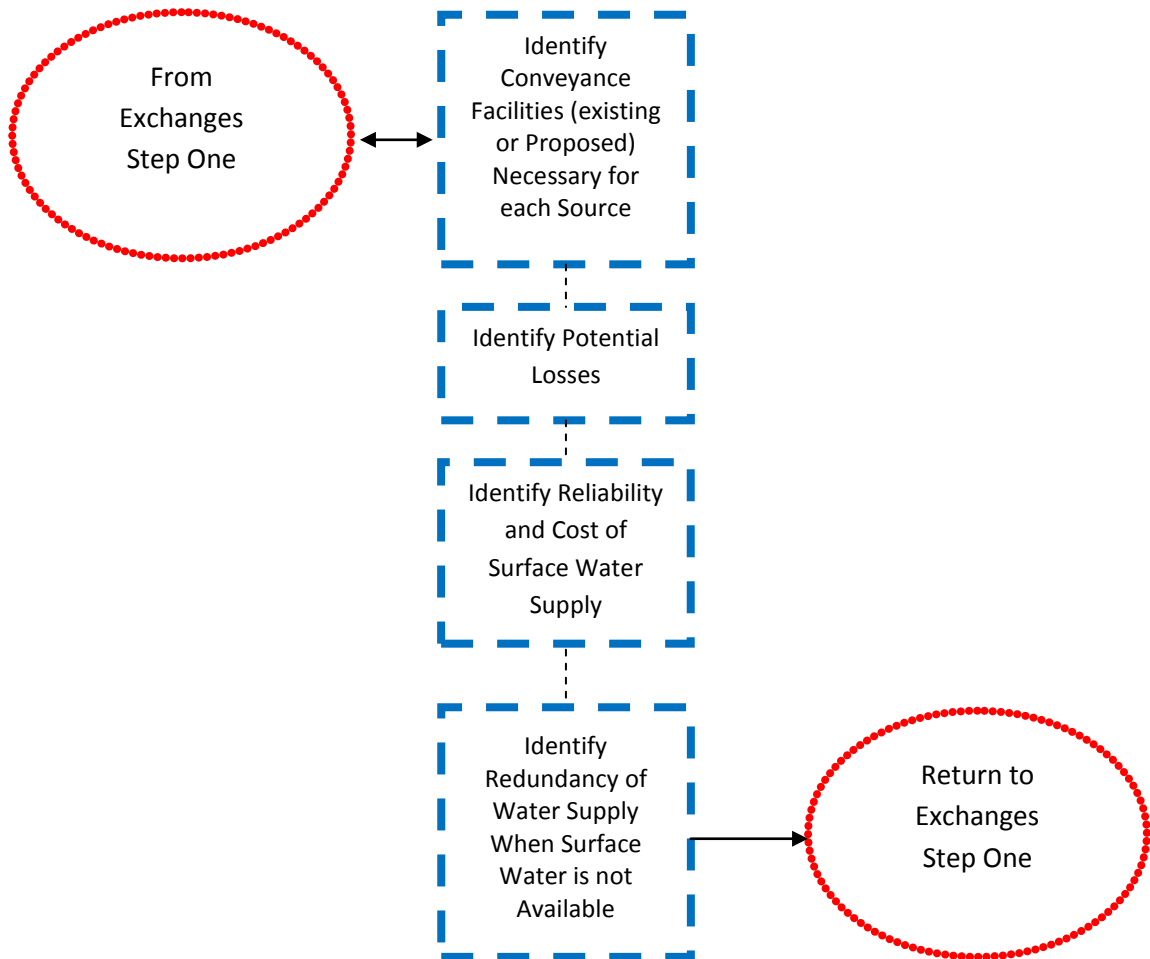
Ivanhoe PUD



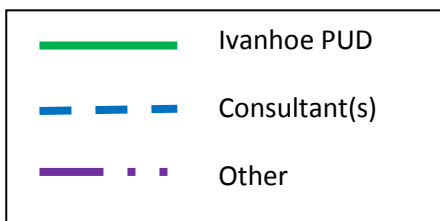
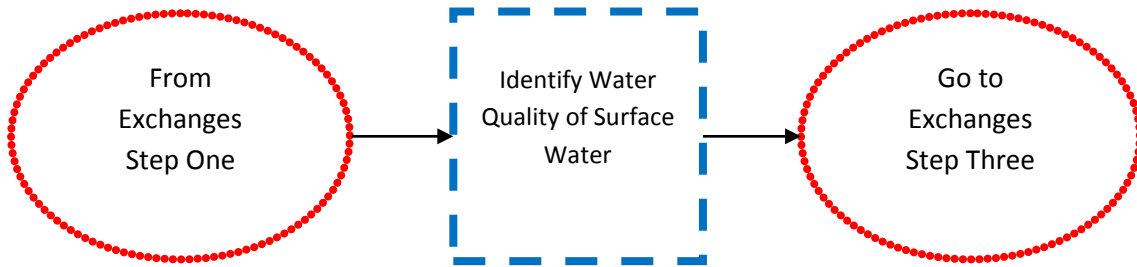
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step One



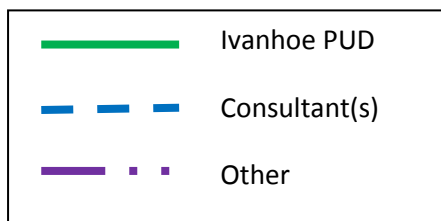
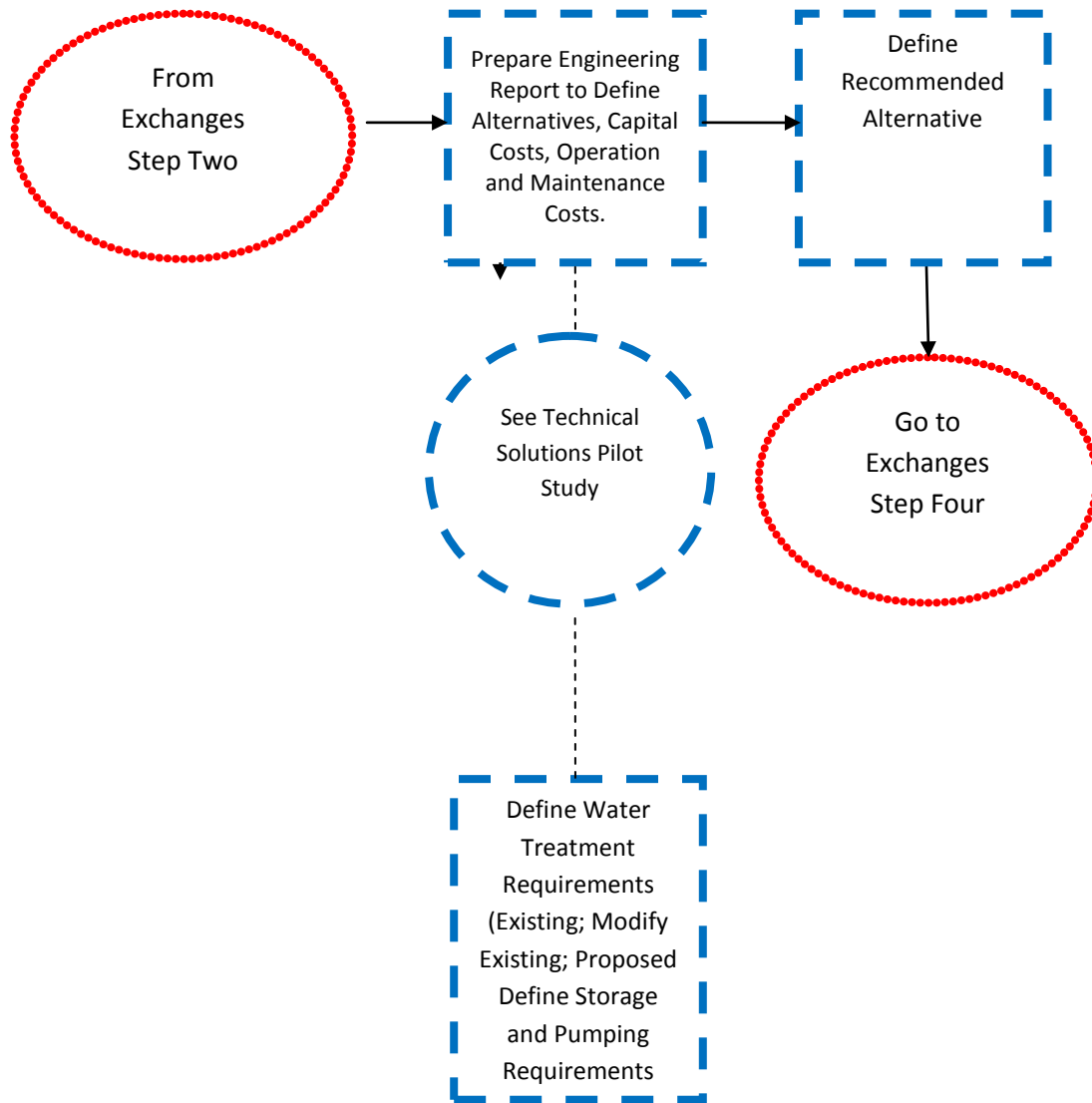
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Two a



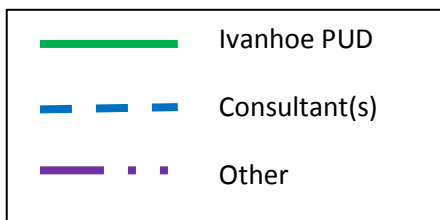
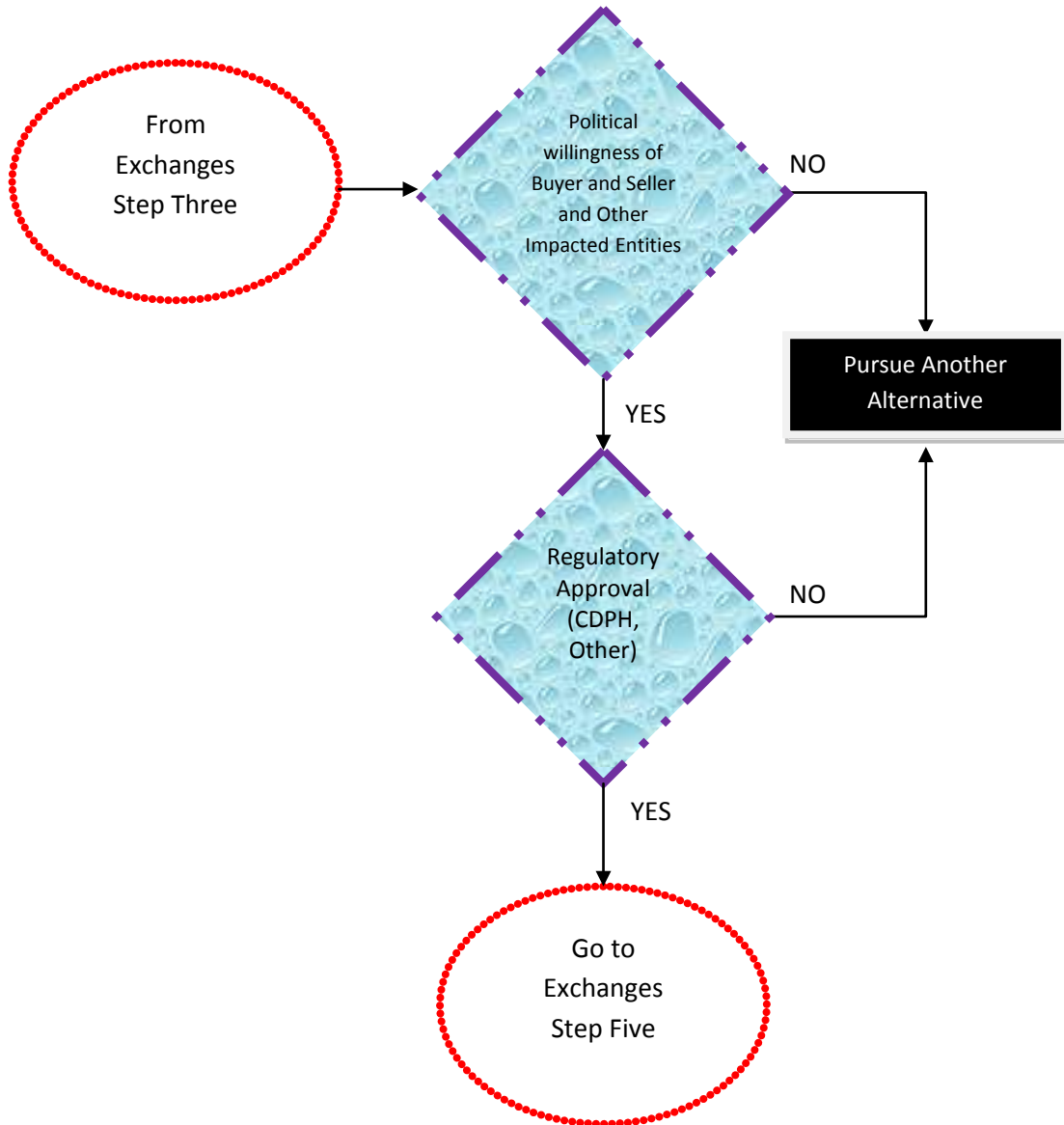
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Two b



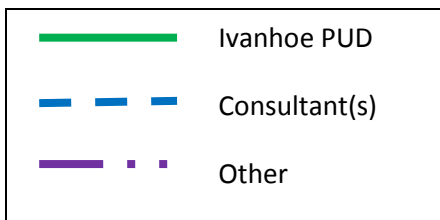
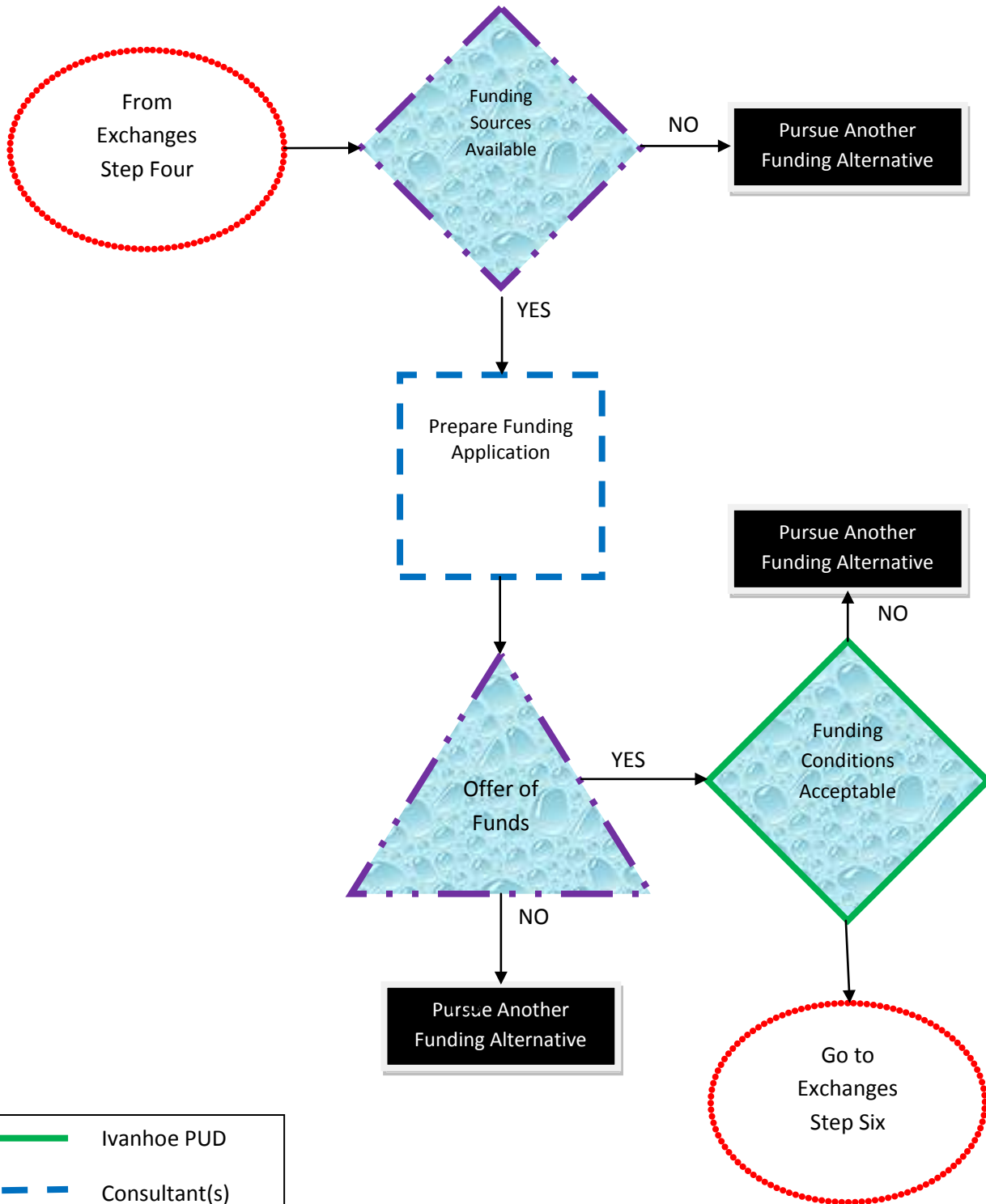
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Three



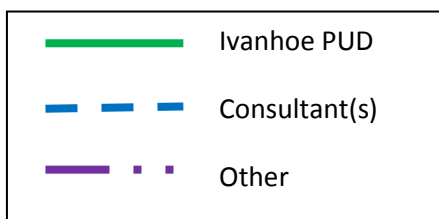
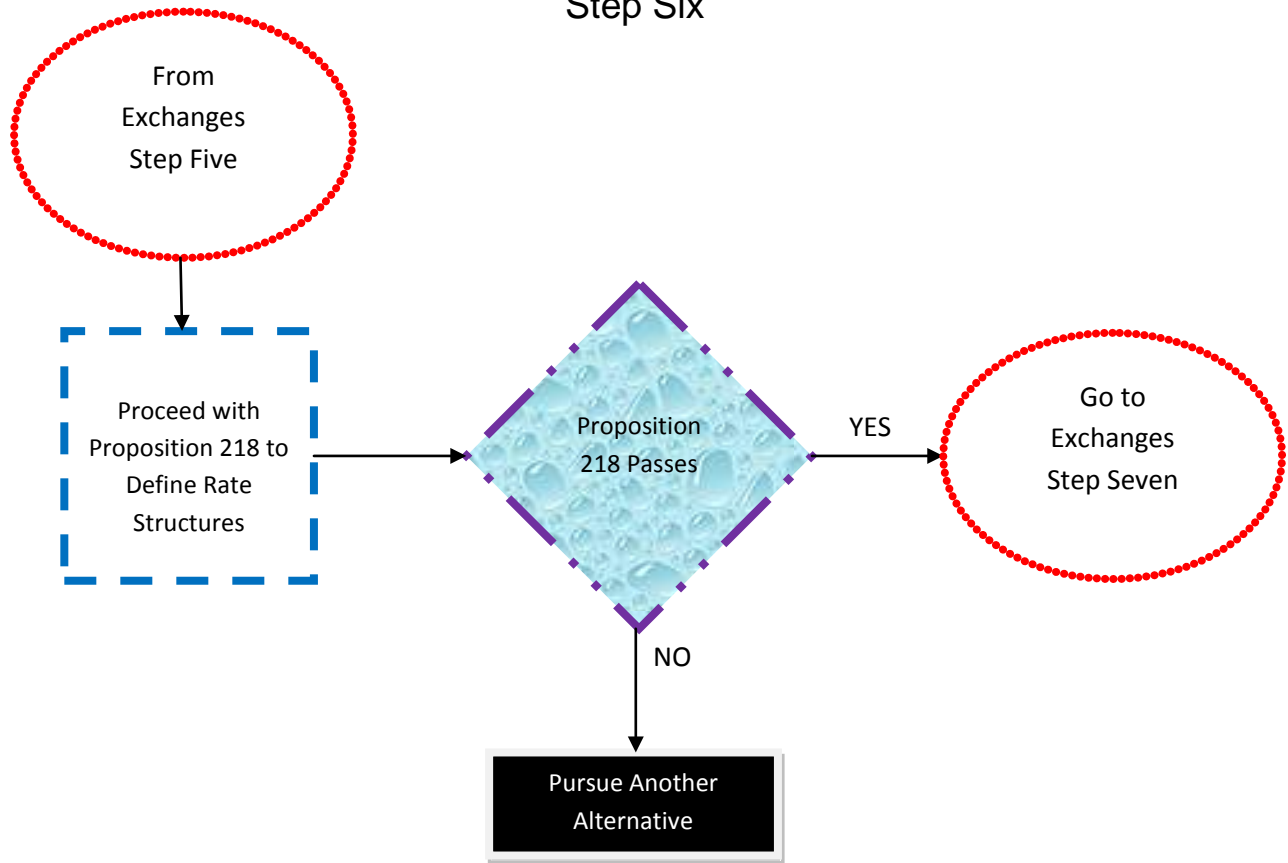
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Four



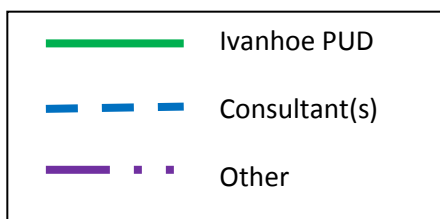
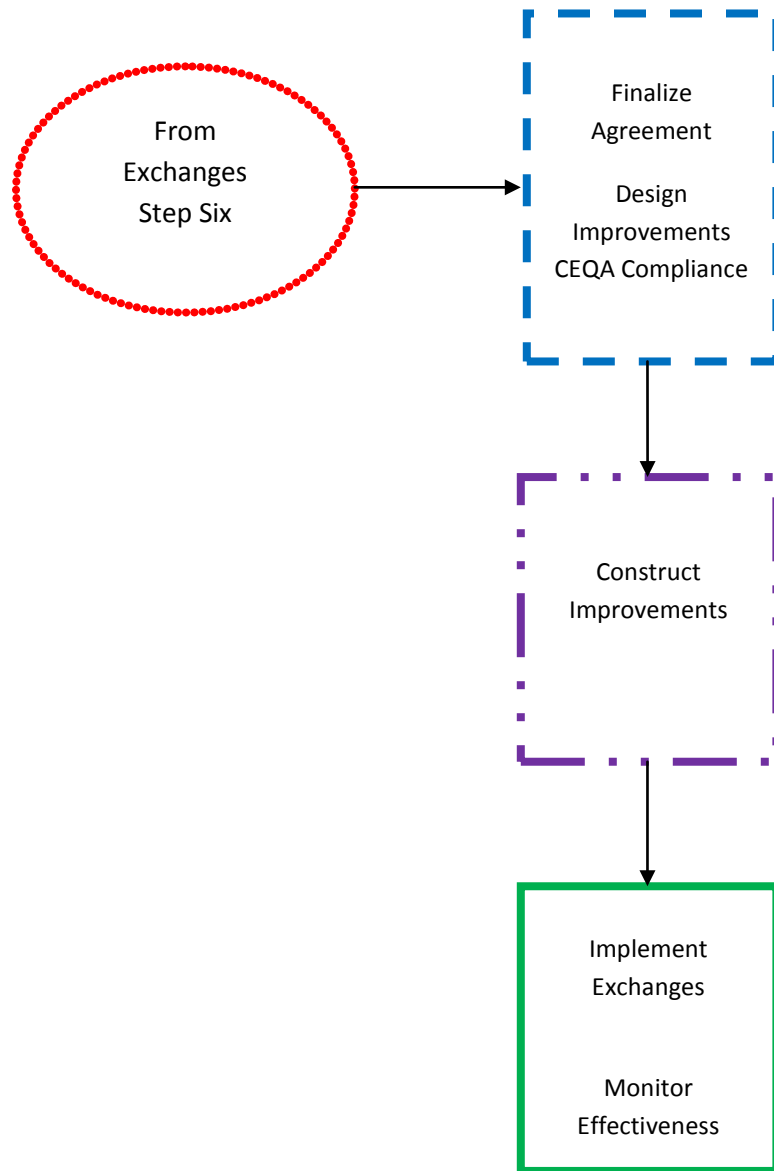
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Five



Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Six



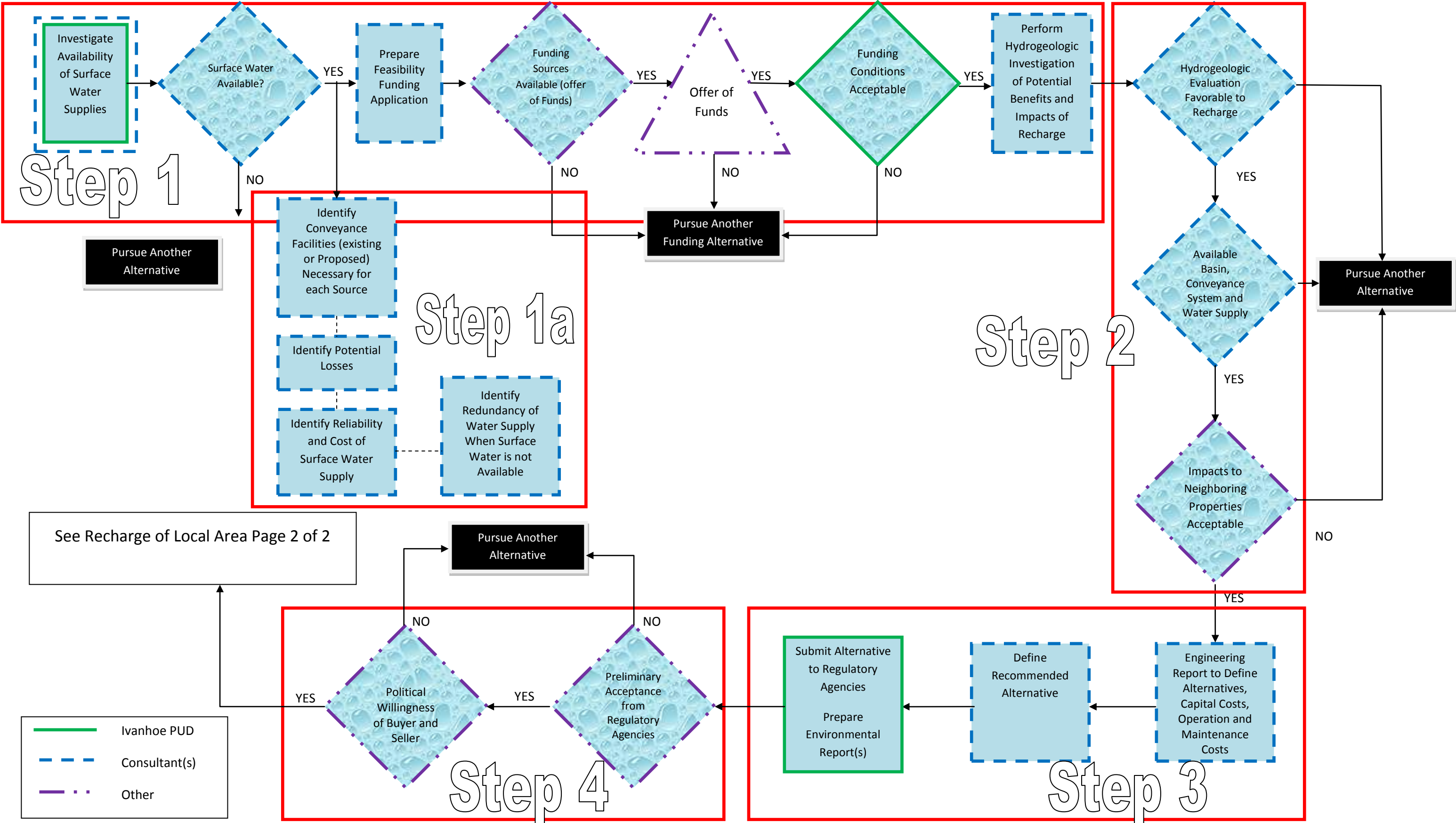
Ivanhoe PUD
Exchanges/Contracting for Surface Water
Step Seven



start

Recharge of Local Area

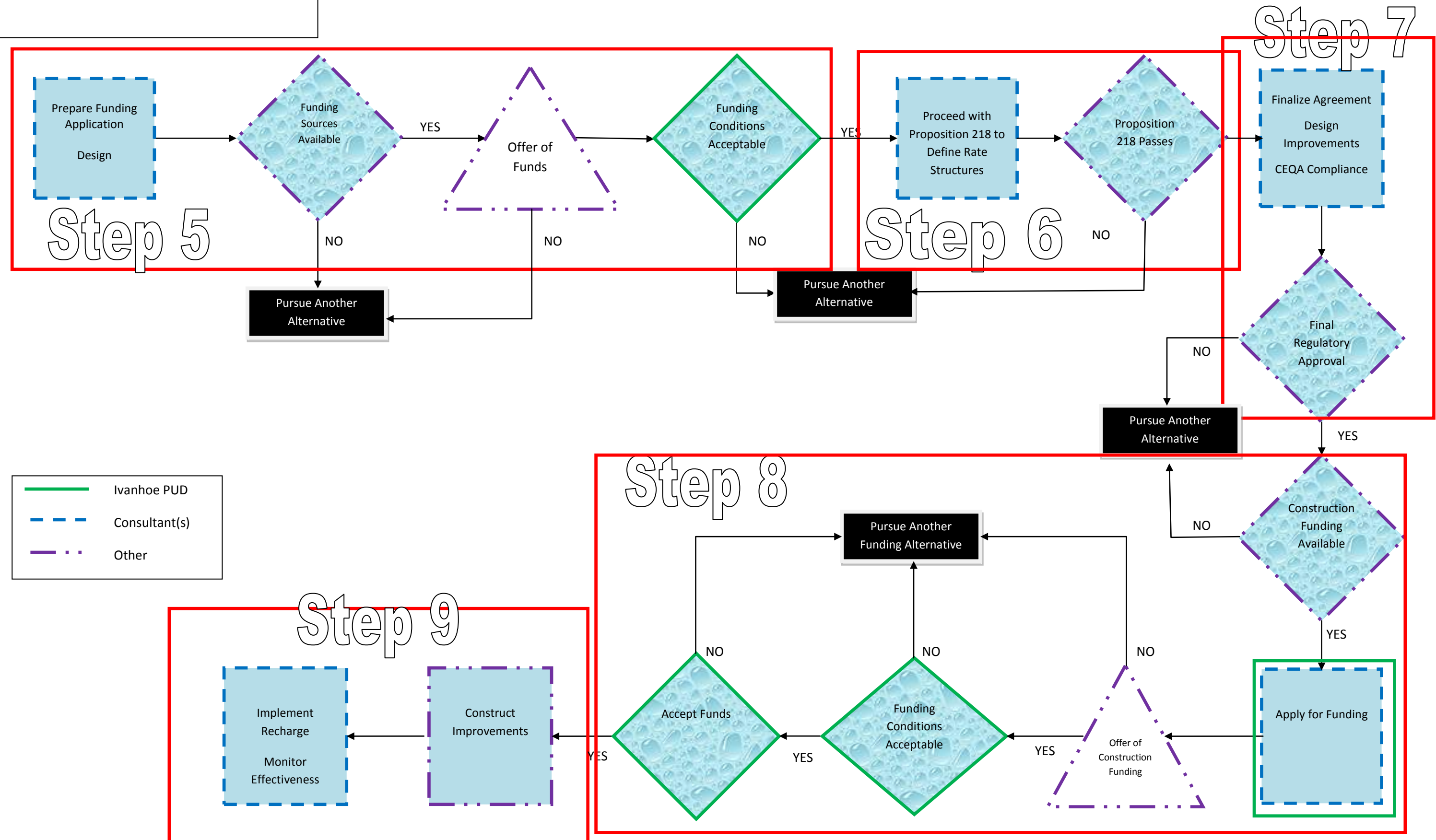
Ivanhoe PUD



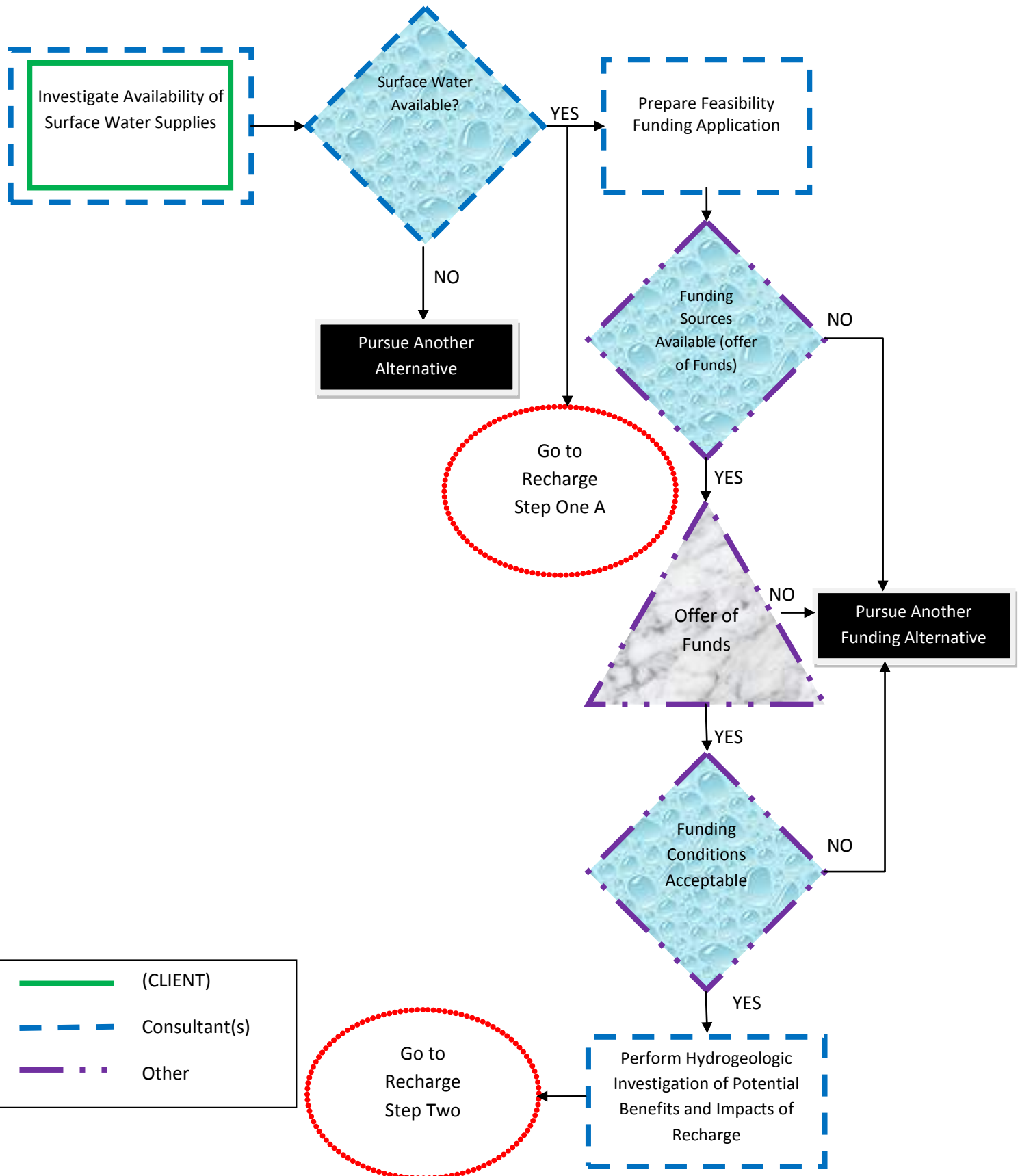
Recharge of Local Area

Ivanhoe PUD

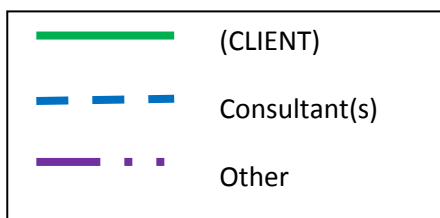
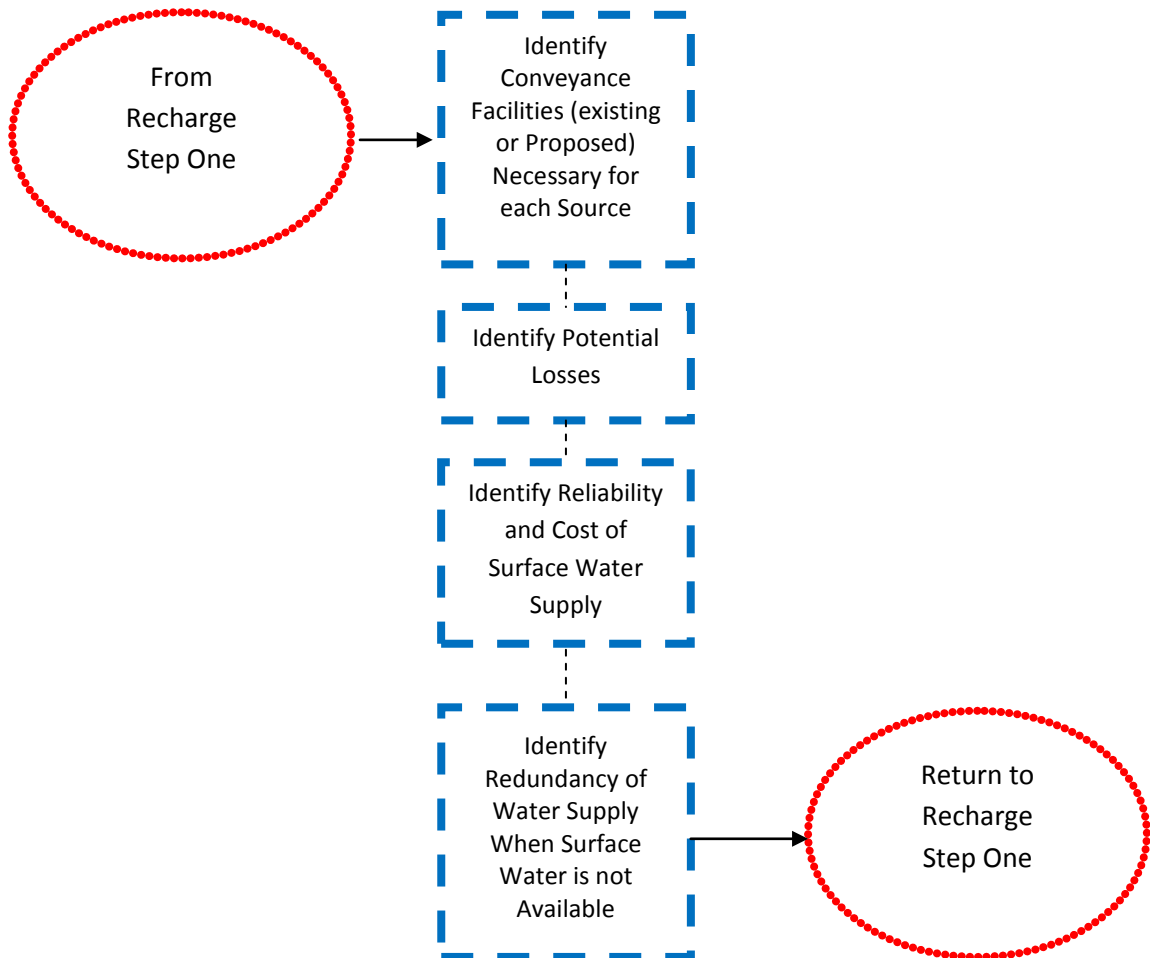
See Recharge of Local Area Page 1 of 2



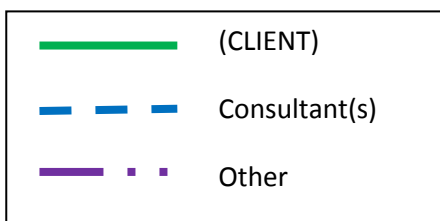
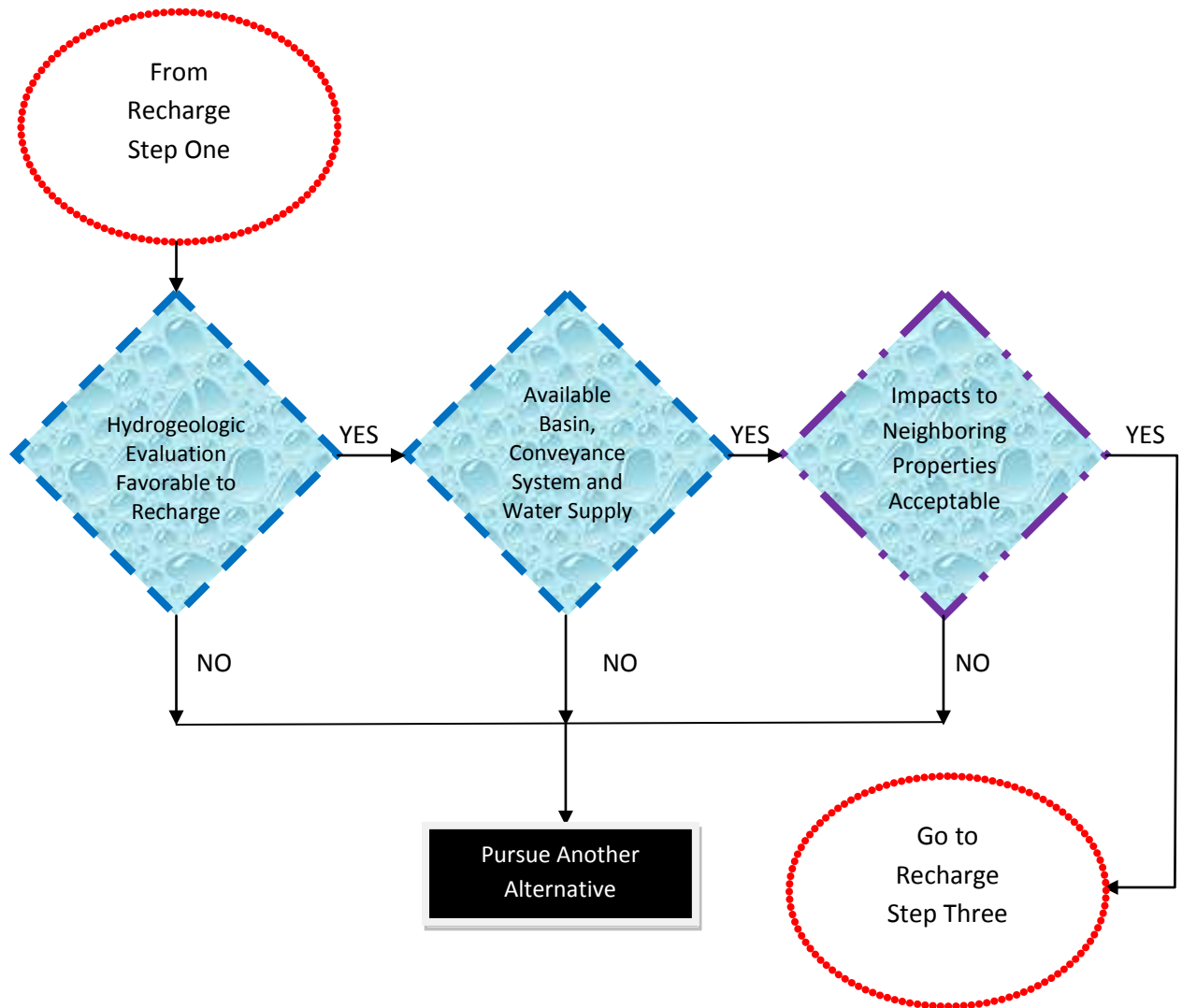
(CLIENT)
Recharge of Local Area
Step One



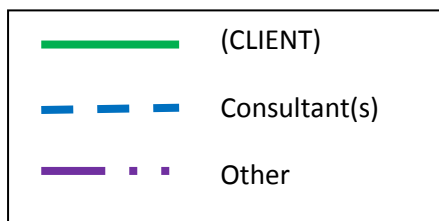
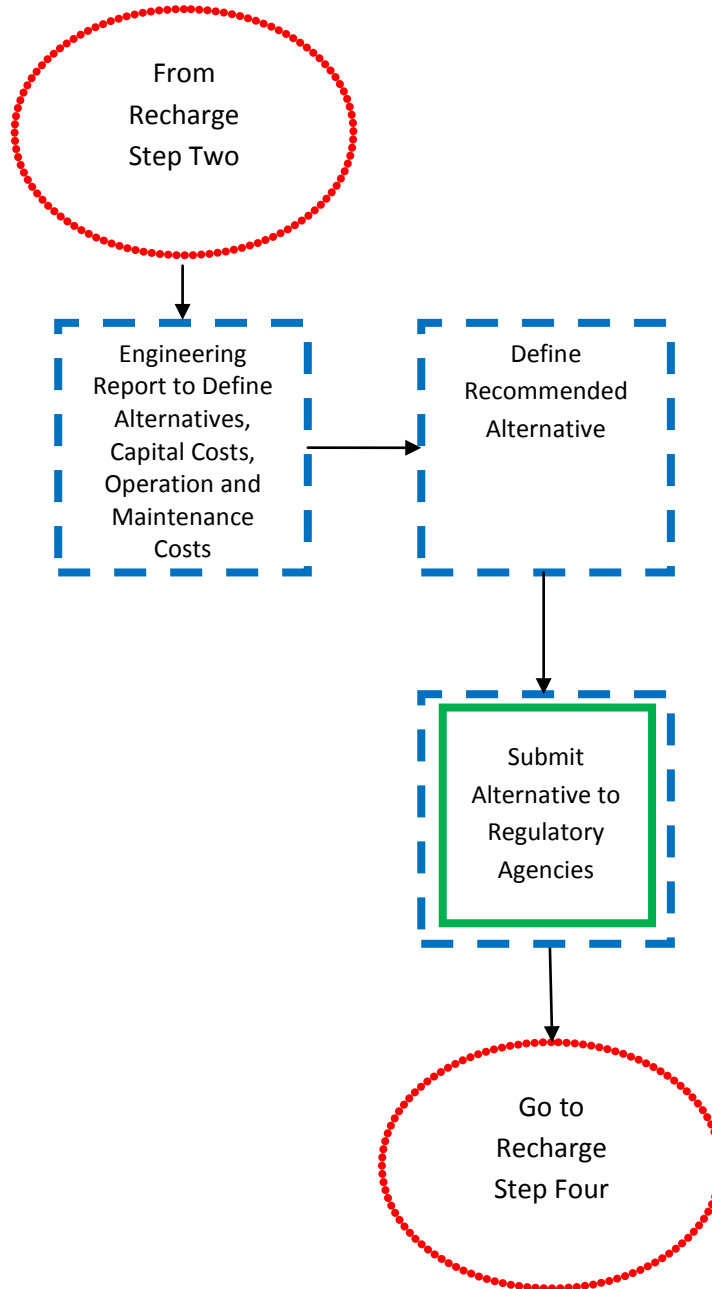
(CLIENT)
Recharge of Local Area
Step 1A



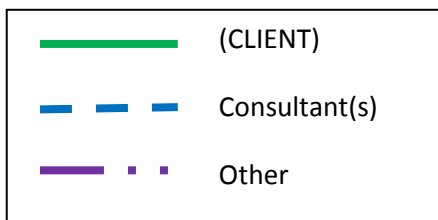
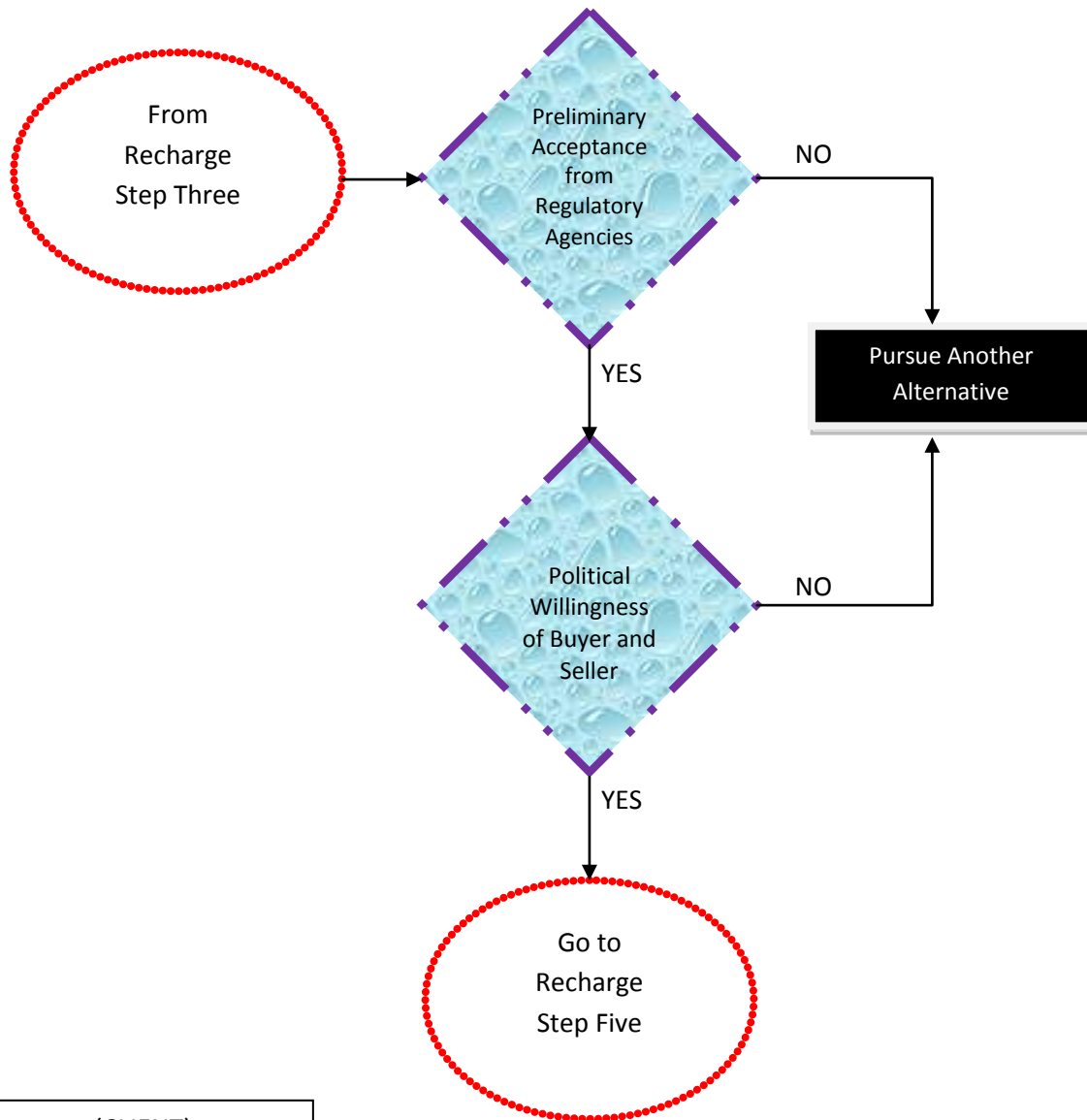
(CLIENT)
Recharge of Local Area
Step Two



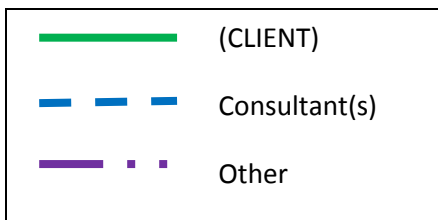
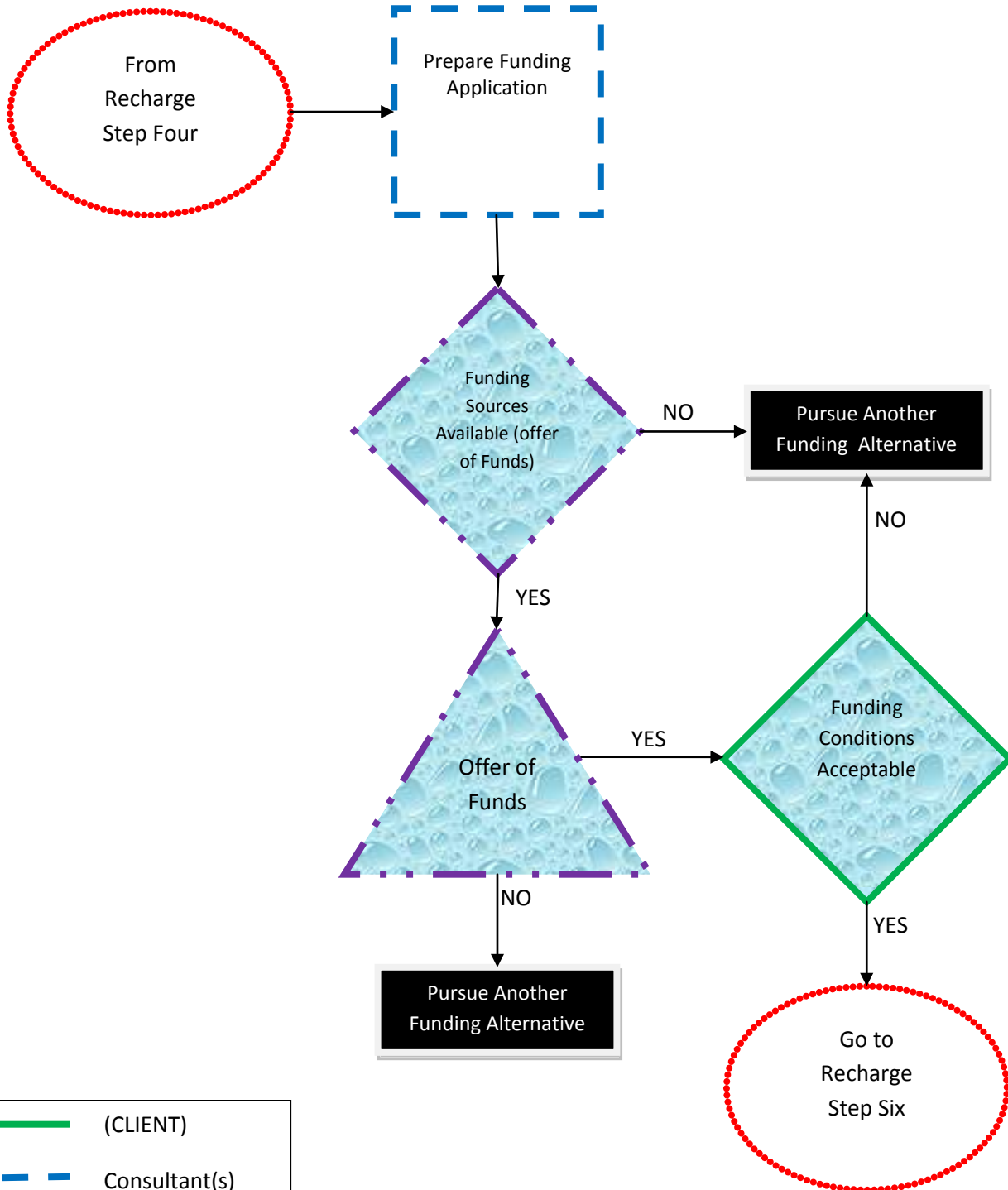
(CLIENT)
Recharge of Local Area
Step Three



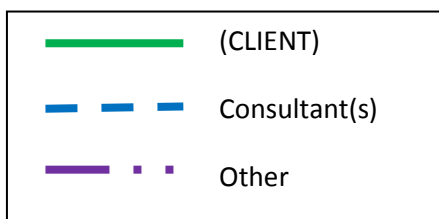
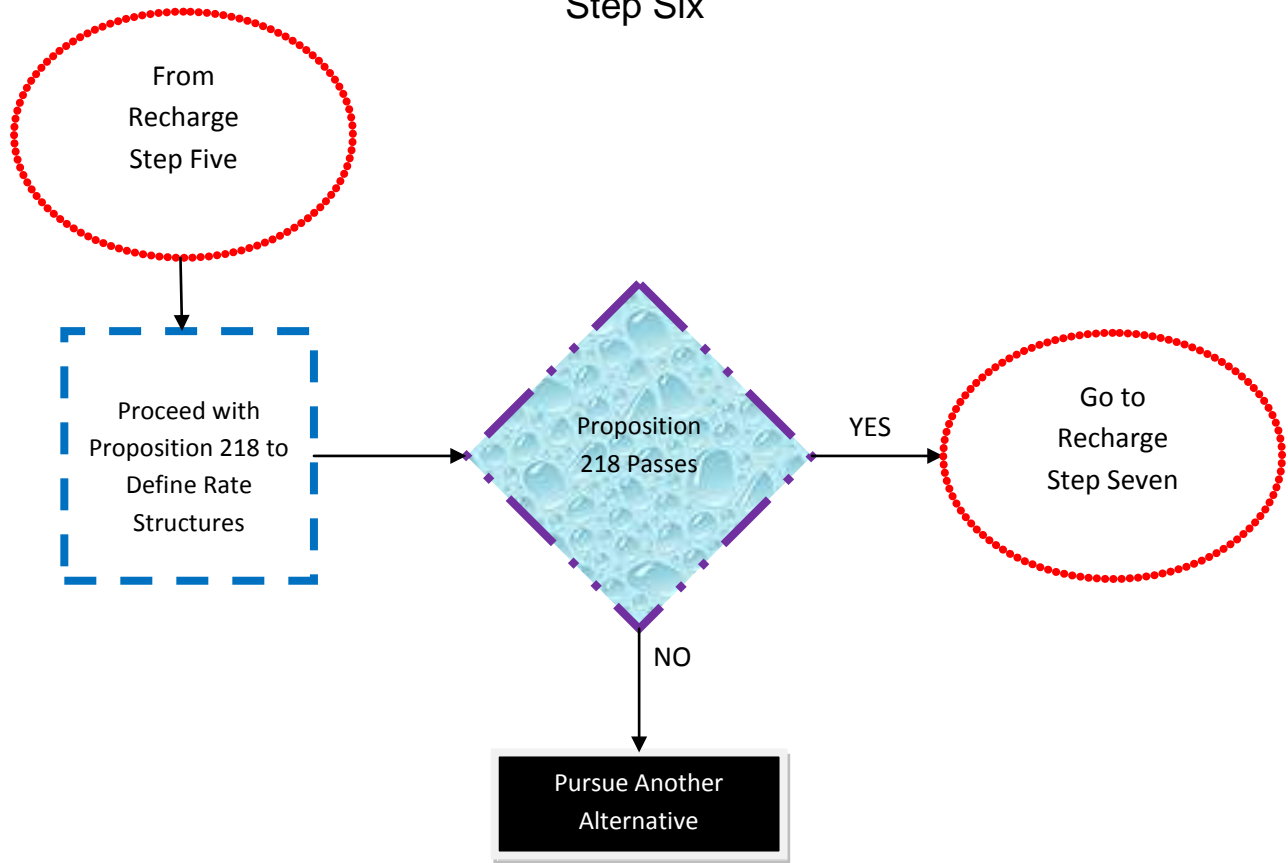
(CLIENT)
Recharge of Local Area
Step Four



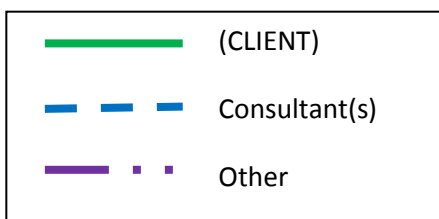
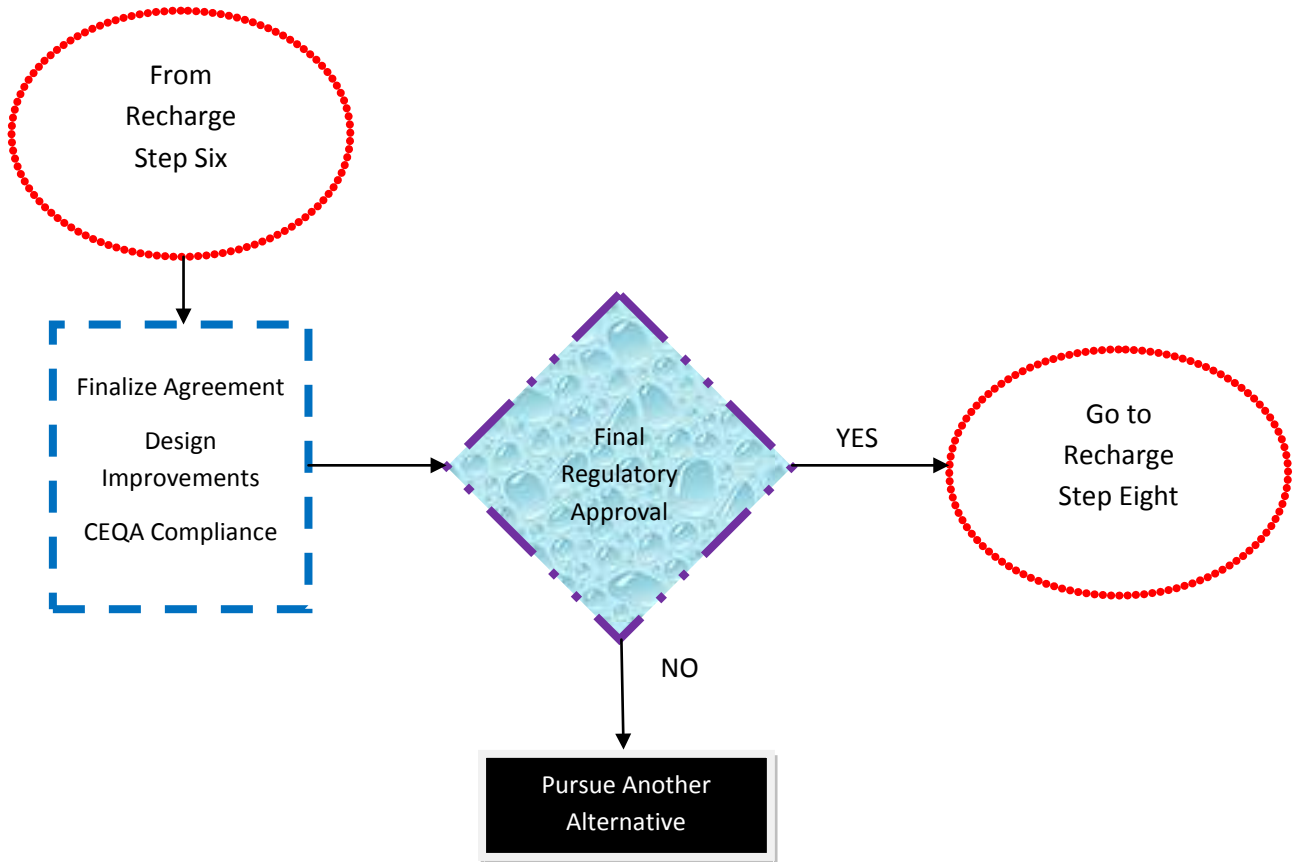
(CLIENT)
Recharge of Local Area
Step Five



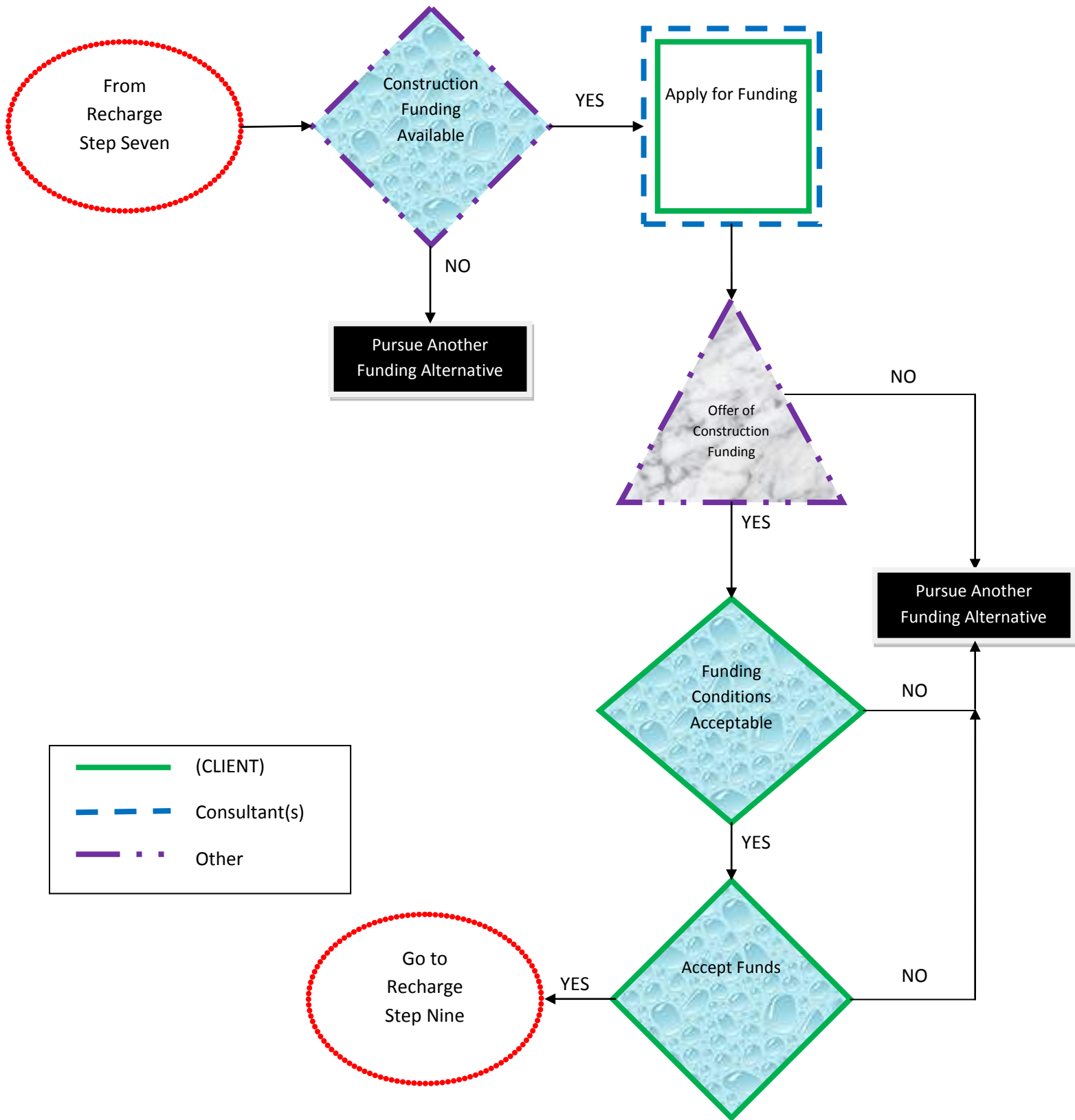
(CLIENT)
Recharge of Local Area
Step Six



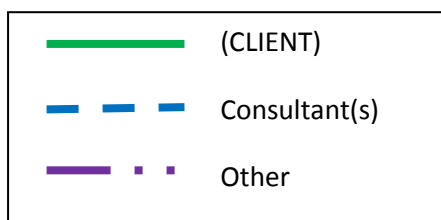
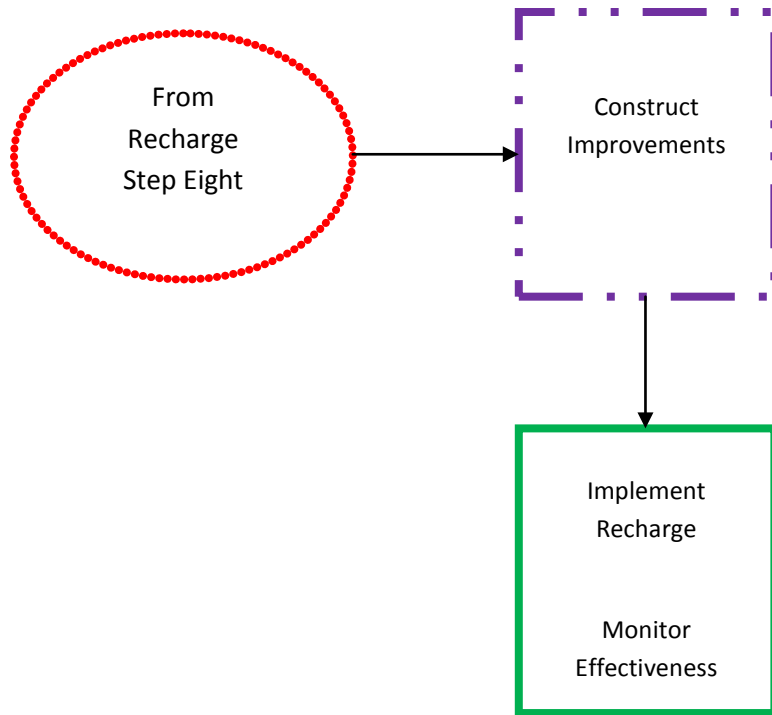
(CLIENT)
Recharge of Local Area
Step Seven



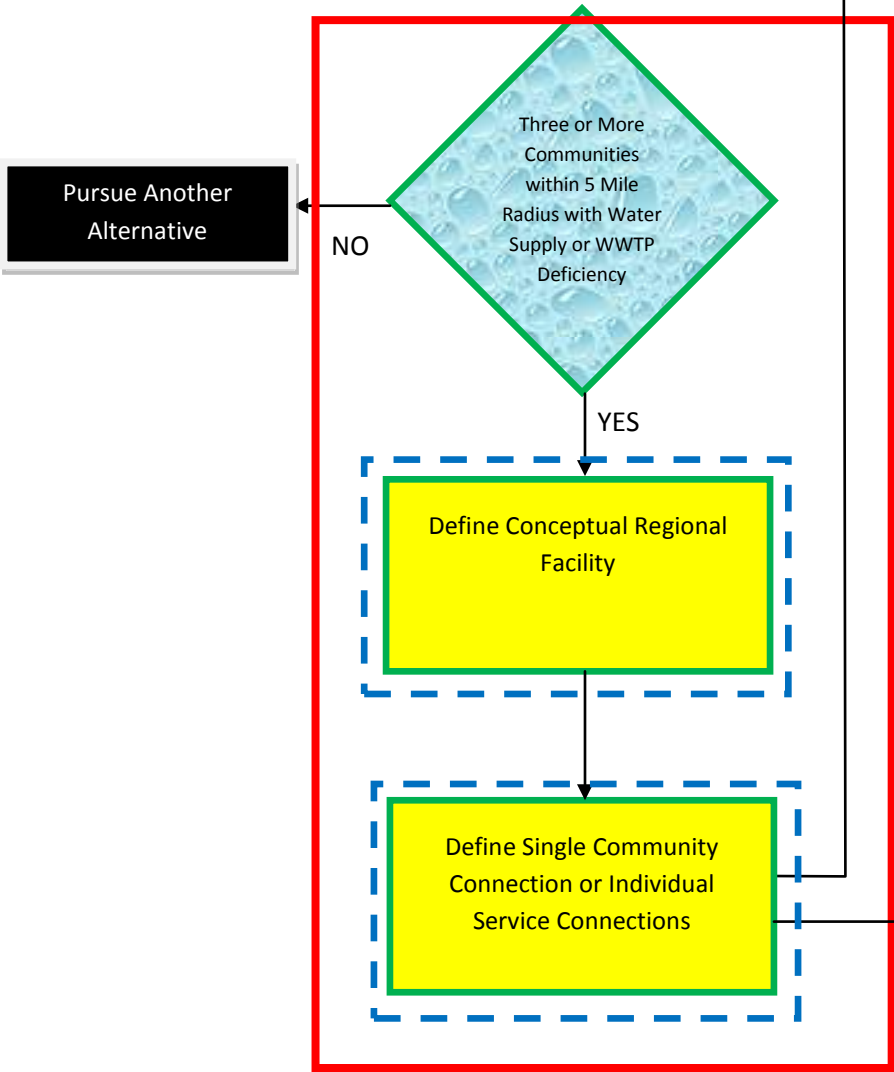
(CLIENT)
Recharge of Local Area
Step Eight



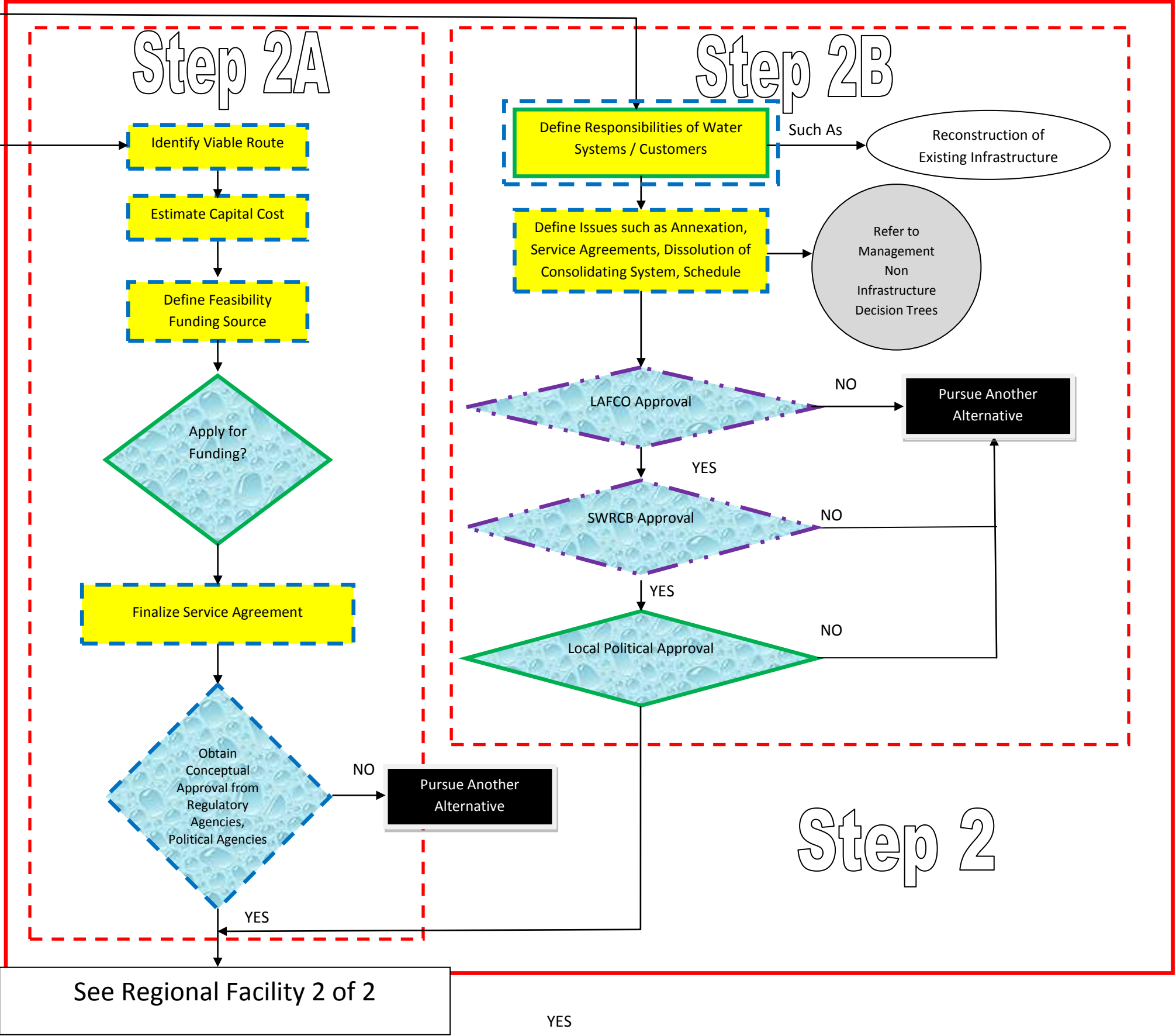
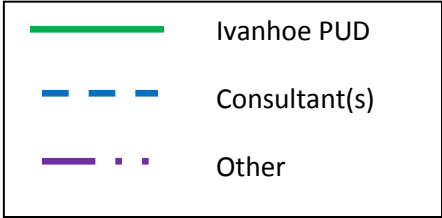
(CLIENT)
Recharge of Local Area
Step Nine



start



Step 1



Step 2

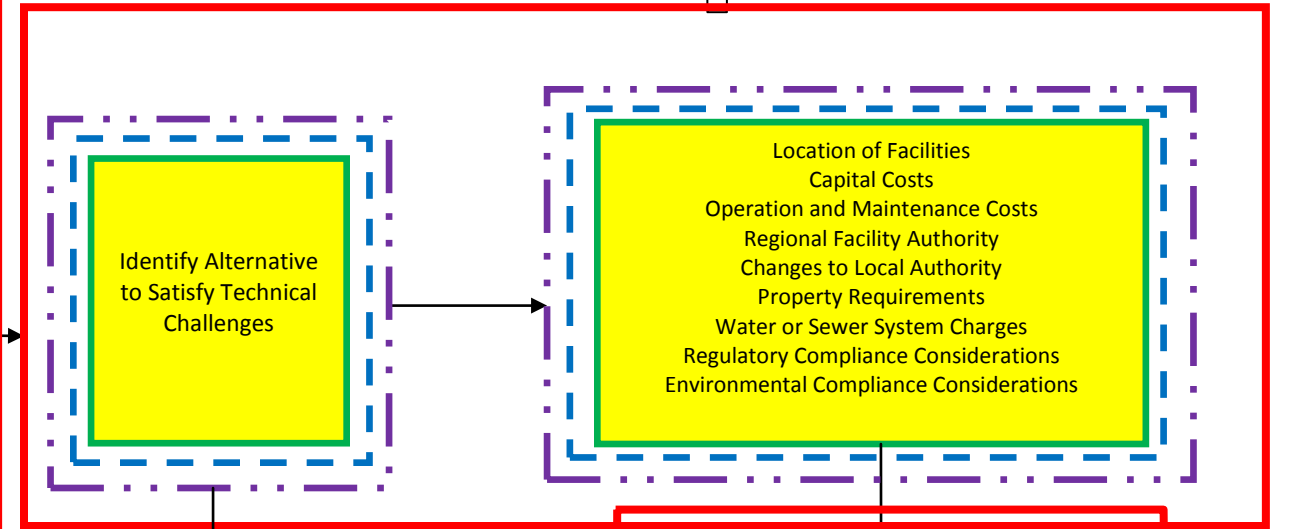
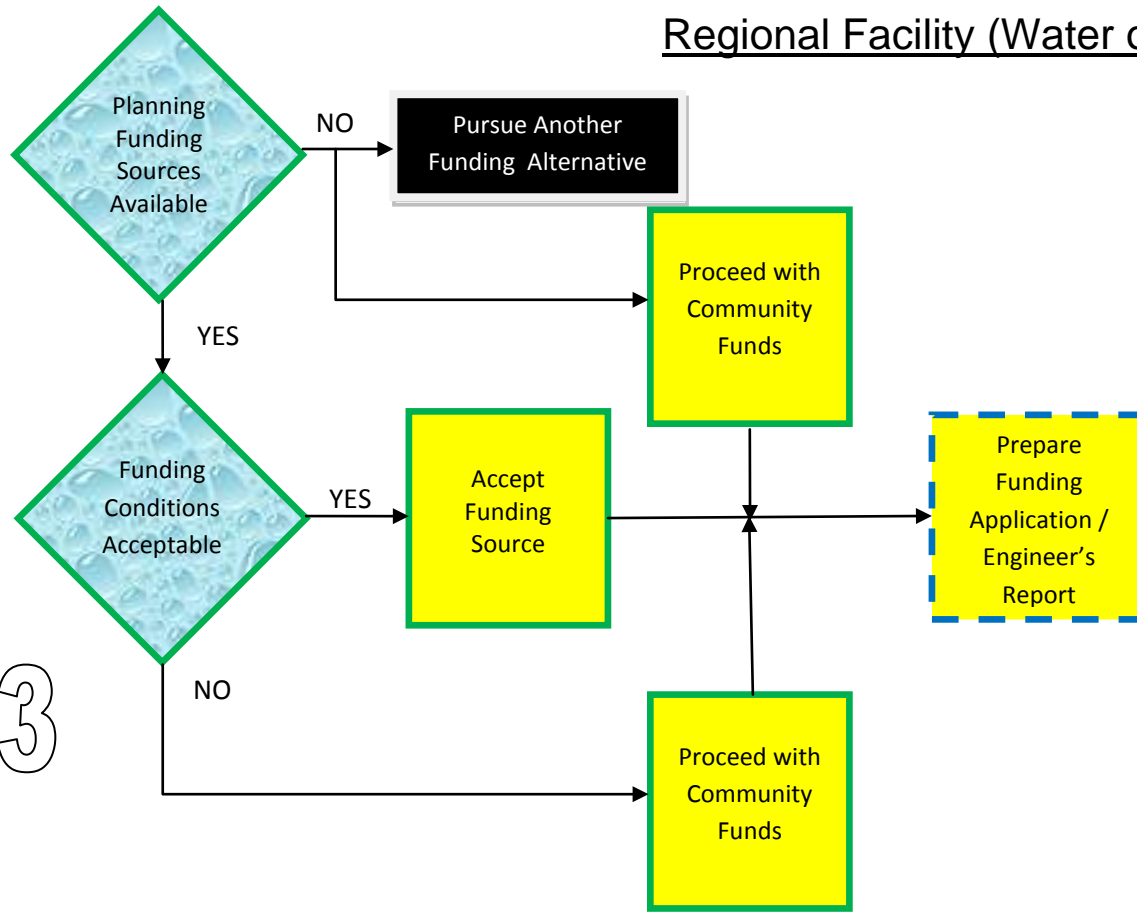
Regional Facility (Water or Wastewater)

Ivanhoe PUD

Step 4

See Regional Facility
1 of 2

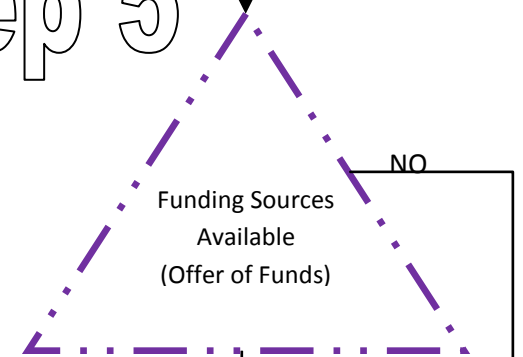
Step 3



See Technical
Solutions
Decision Tree
(if Required)

Step 5

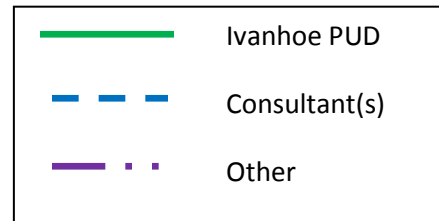
Prepare Funding Application(s)



Step 7

Construct
Improvements

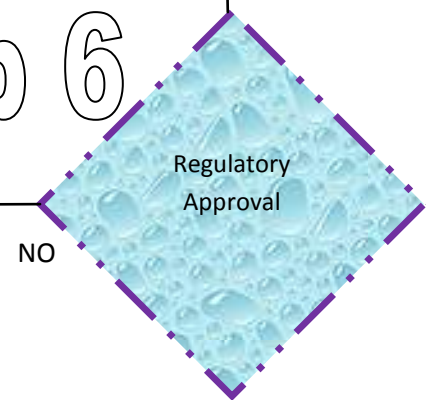
Implement Regional System or
Facility Operation



Pursue Another
Alternative

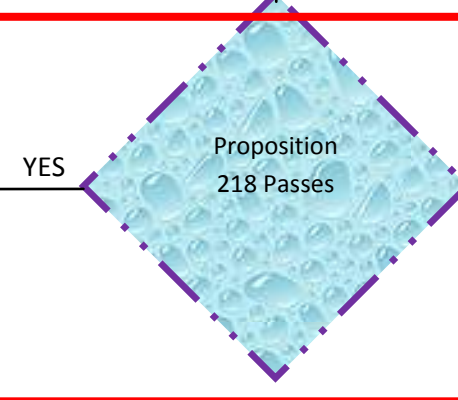
Step 6

Pursue Another
Alternative

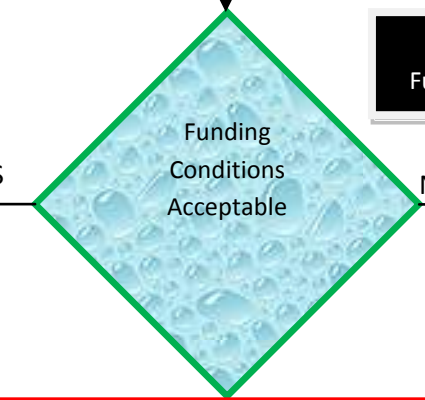


Finalize
Agreements
Design
Improvements
CEQA Compliance
Regulatory Permit
Applications

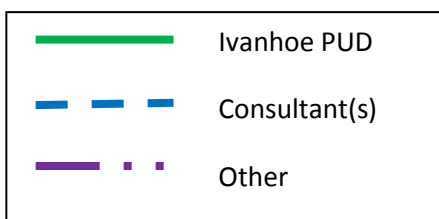
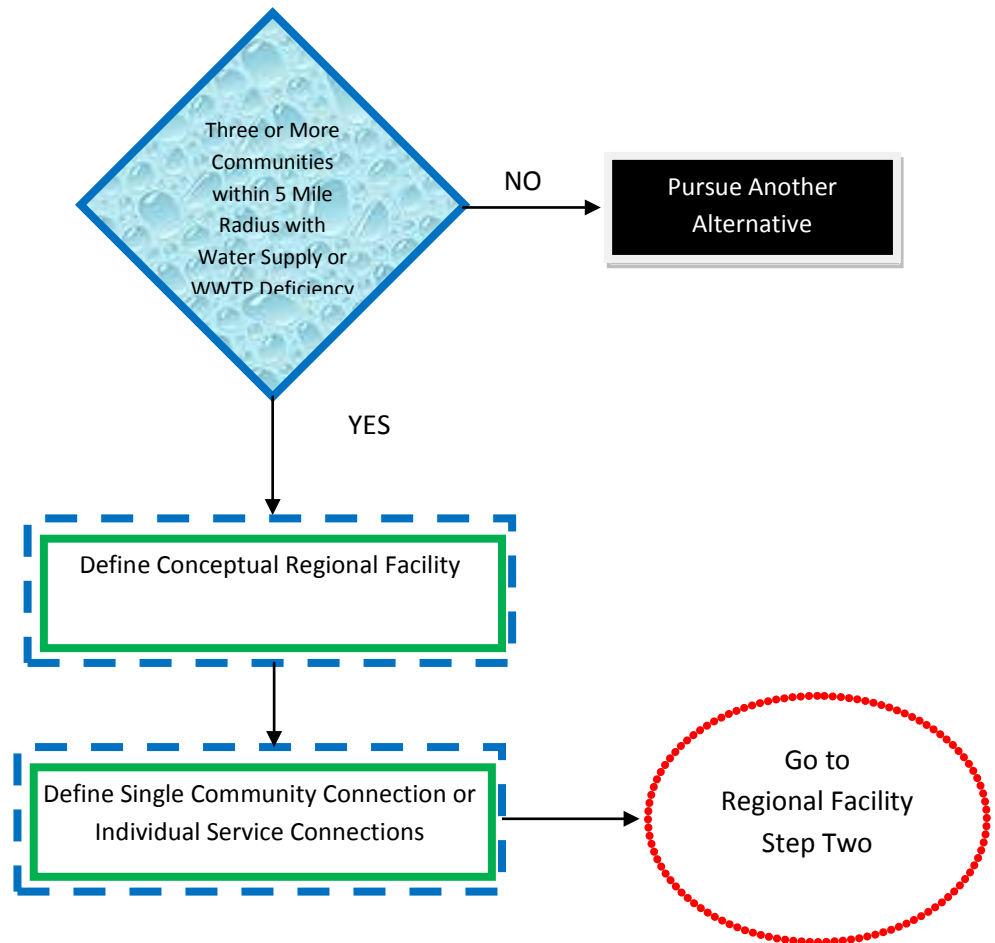
Acquire Viable
Route to
Connect to
Water System
or Sewer
System



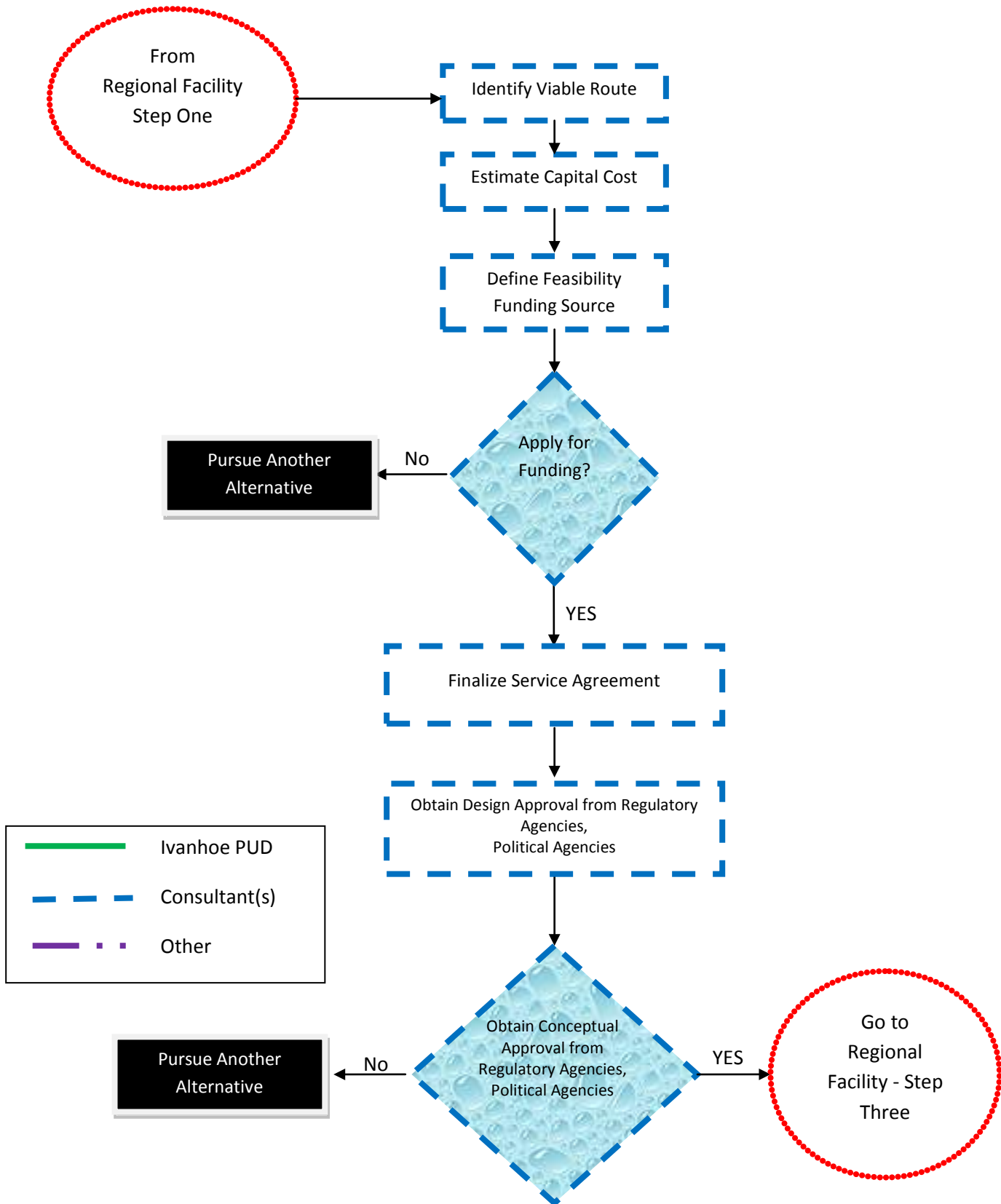
Proceed with
Proposition 218 to
Define Rate
Structure



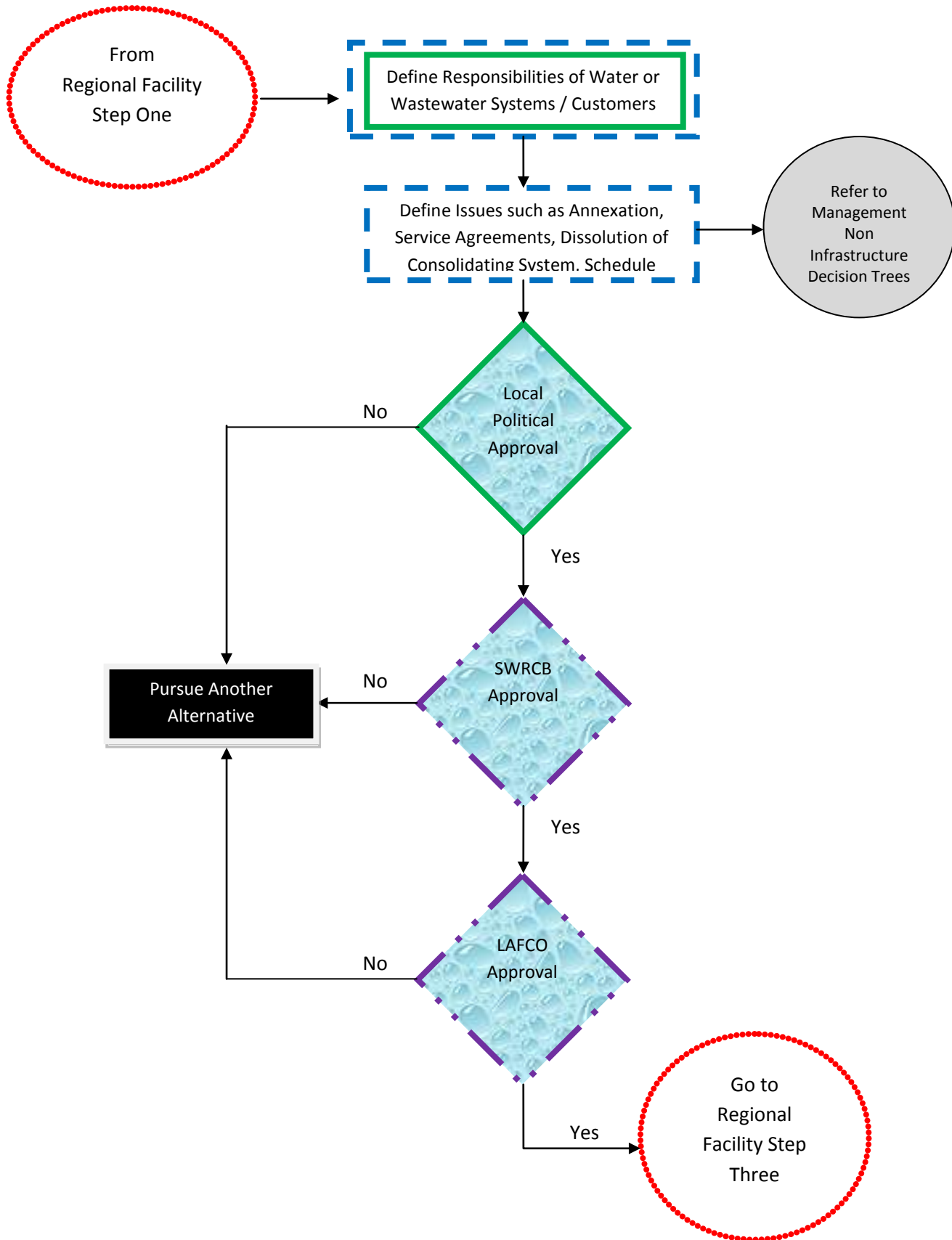
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step One



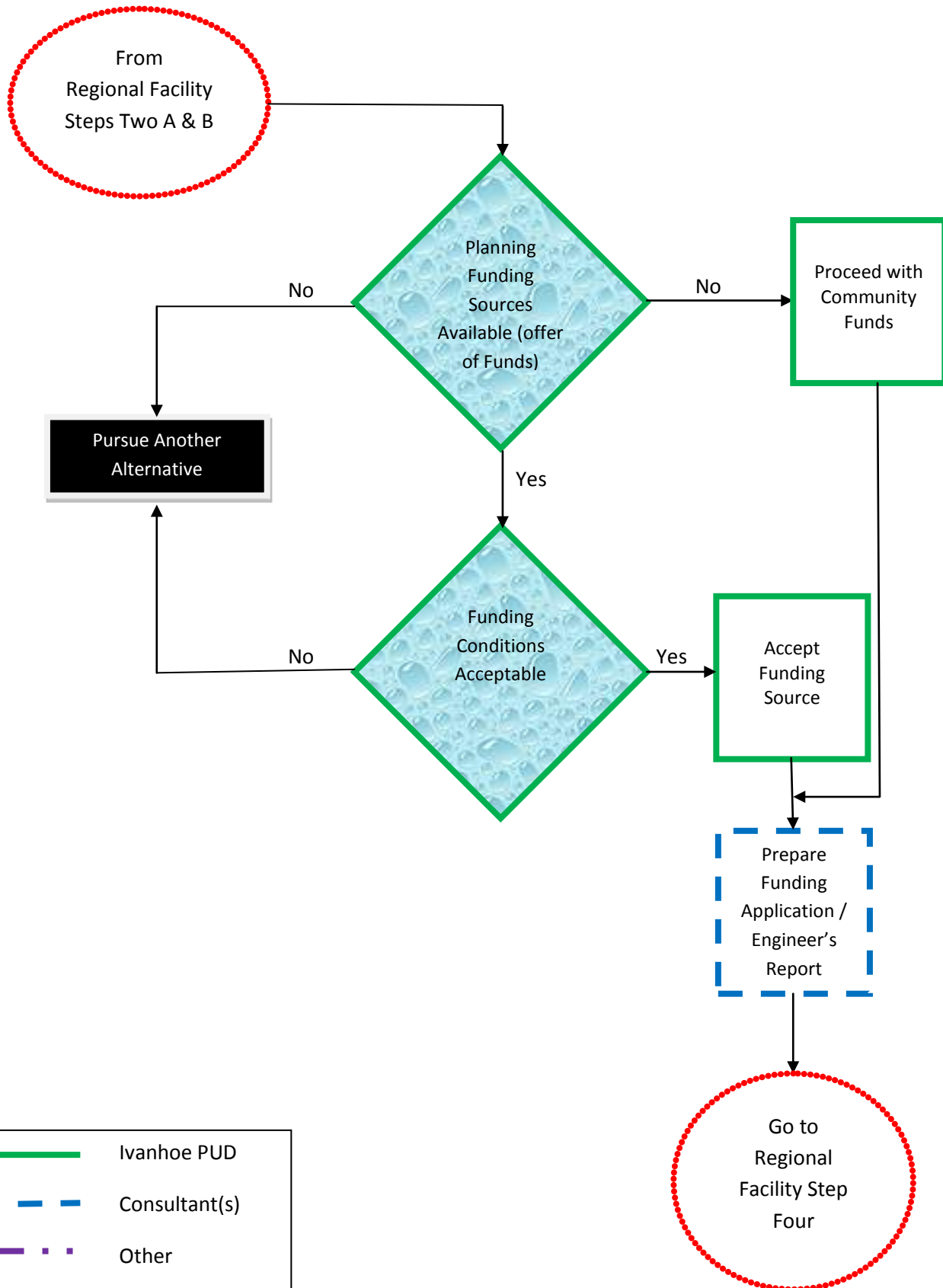
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Two A
(Technical)



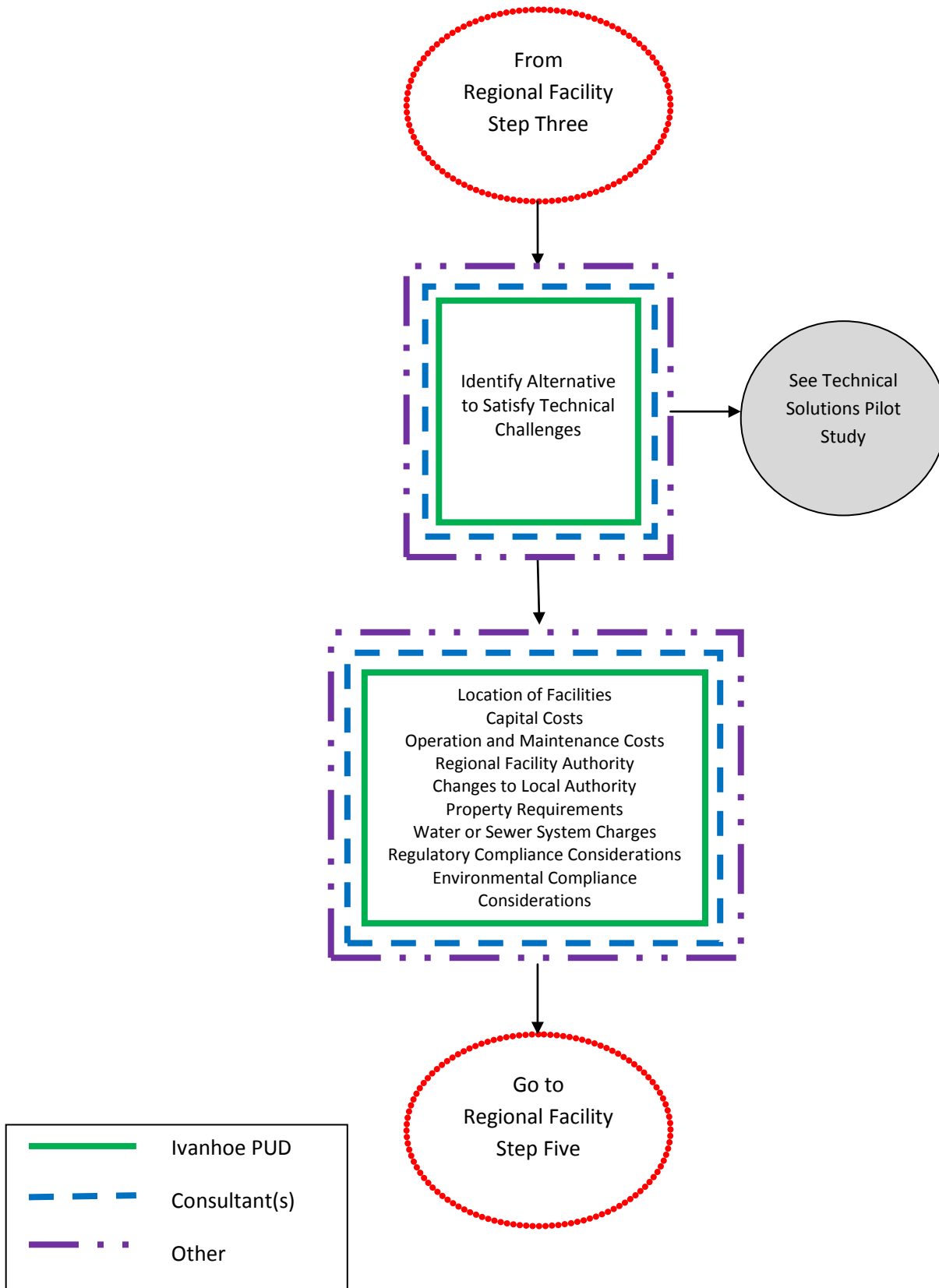
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Two B
(Political)



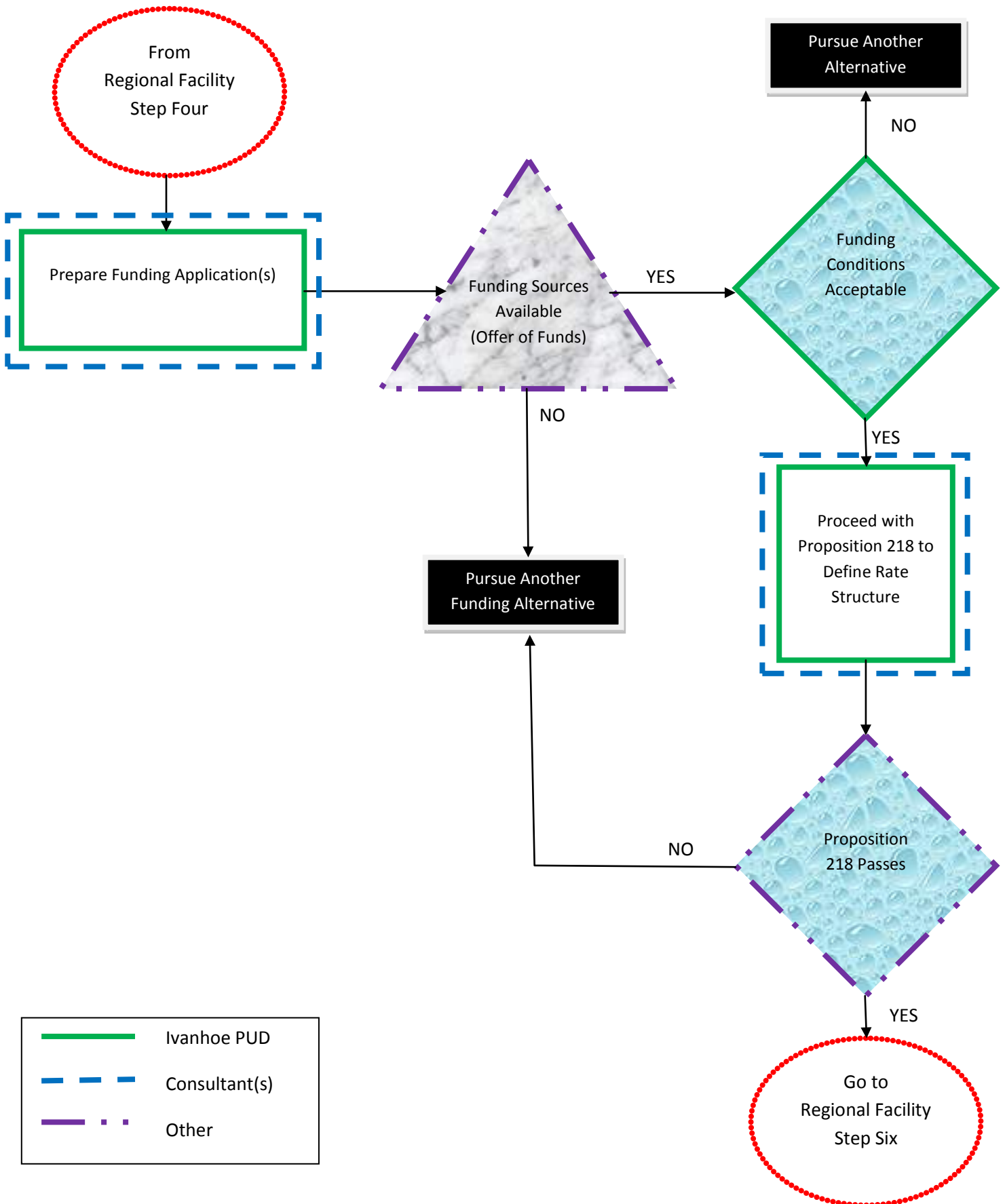
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Three



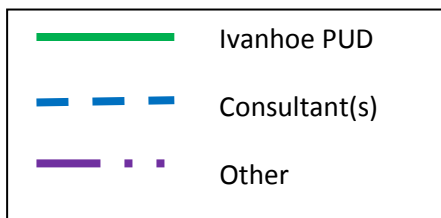
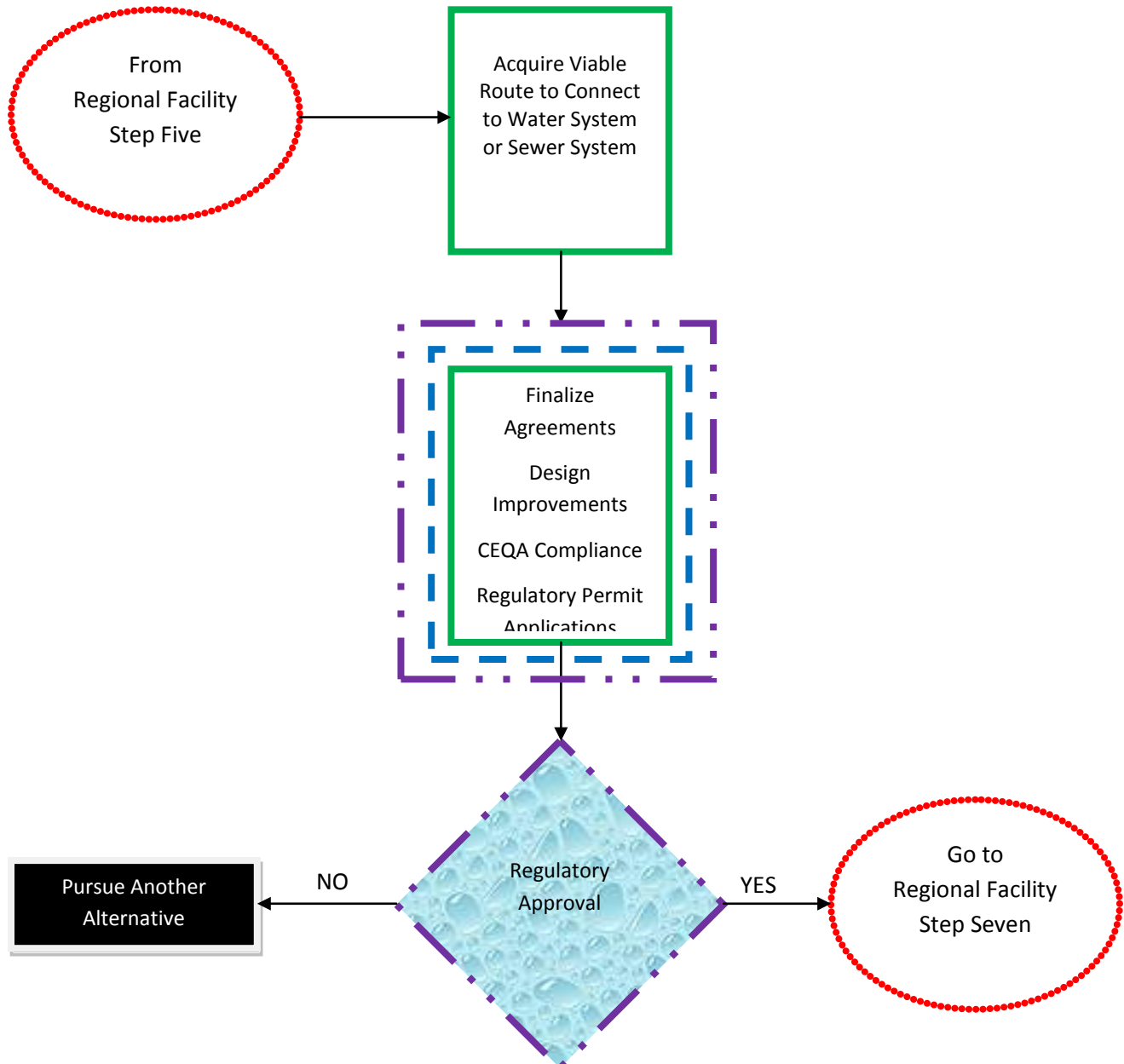
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Four



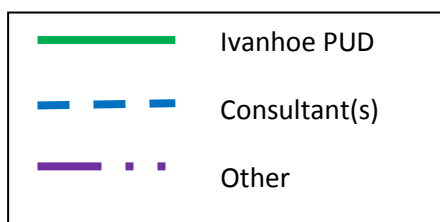
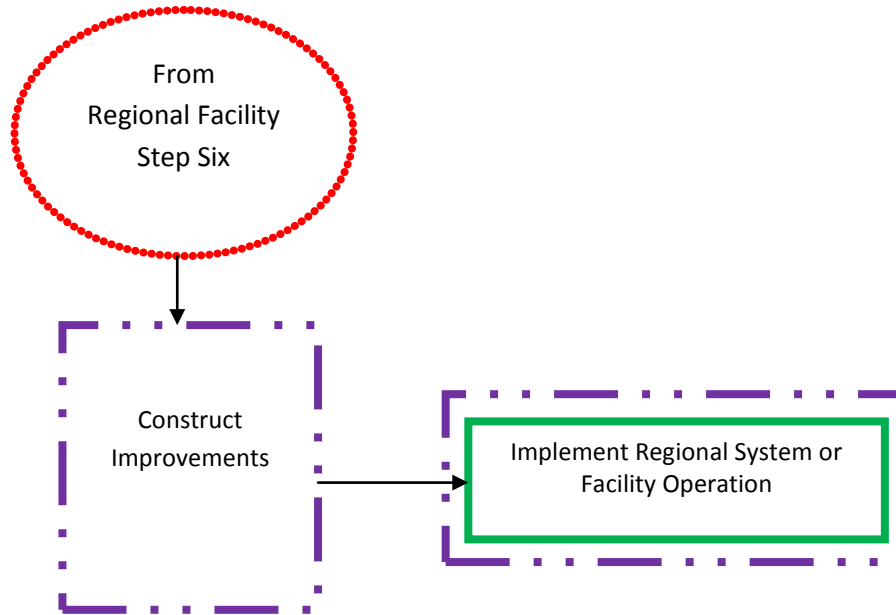
Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Five



Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Six



Ivanhoe PUD
Regional Facility (Water or Wastewater)
Step Seven



start

Investigate Local Hydrogeology
(Groundwater Depth, Quality)
(Location / Depth of existing wells)

Potential for Groundwater Water Supply

Pursue Another Alternative

Step 1

YES

Are Funding Sources Available?

No

Pursue Another Funding Alternative

YES

Prepare Funding Application

Proceed with Community Funds

Prepare Preliminary Engineer's Report
Include Capital and Operational Costs

Step 2

Offer of Funds?

YES

Funding Conditions Acceptable

No

YES

Proceed with Prop 218 if Rate Adjustment is Required

Proposition 218 Passes

YES

Accept Funds

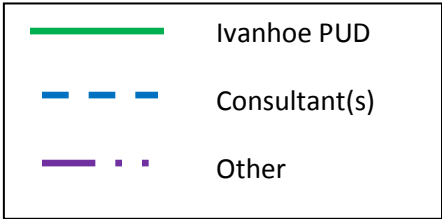
Step 3

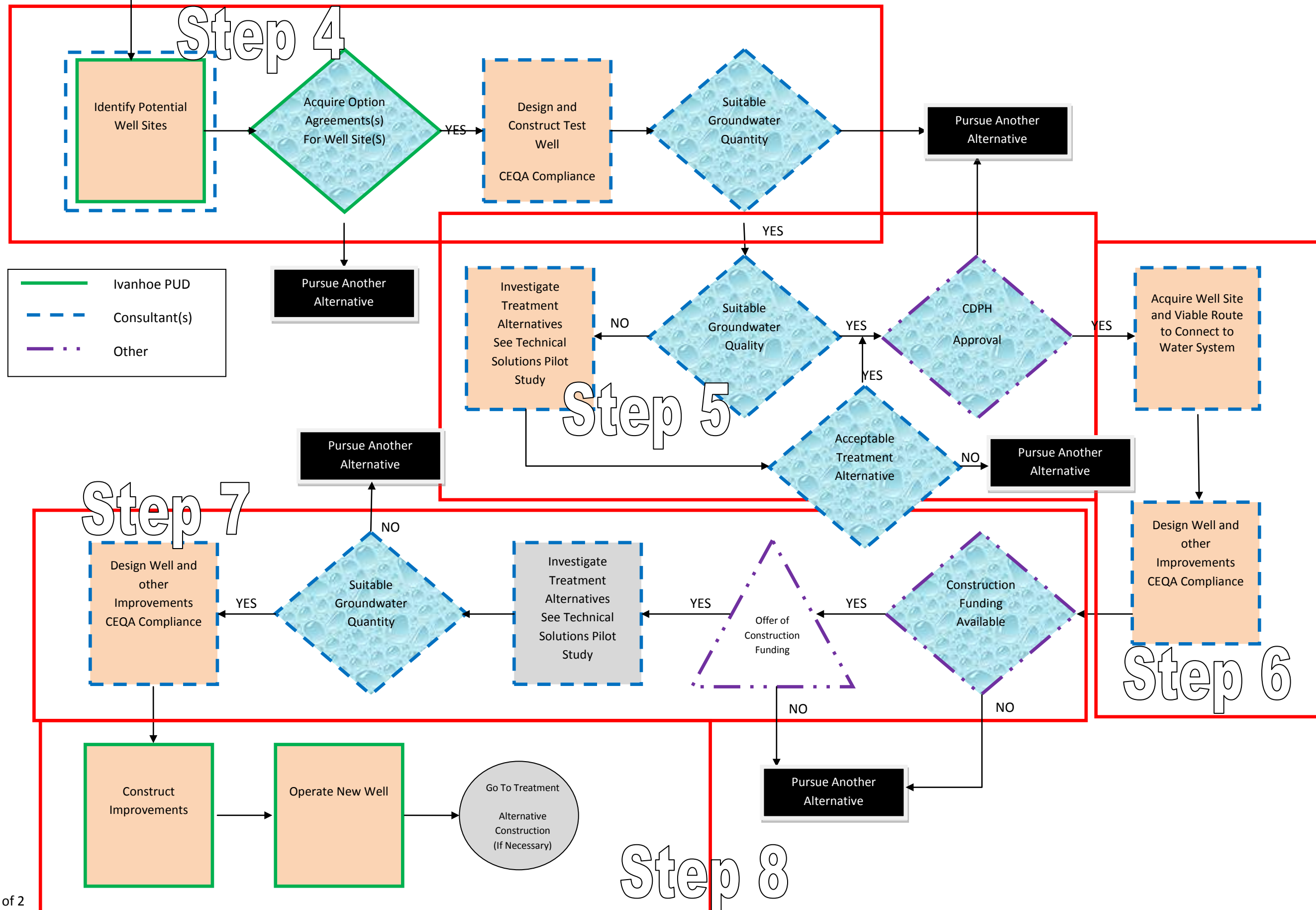
No

Pursue Another Alternative

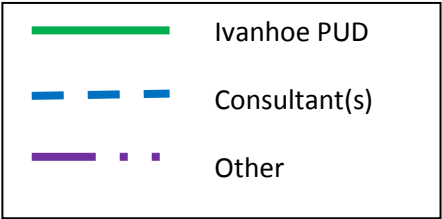
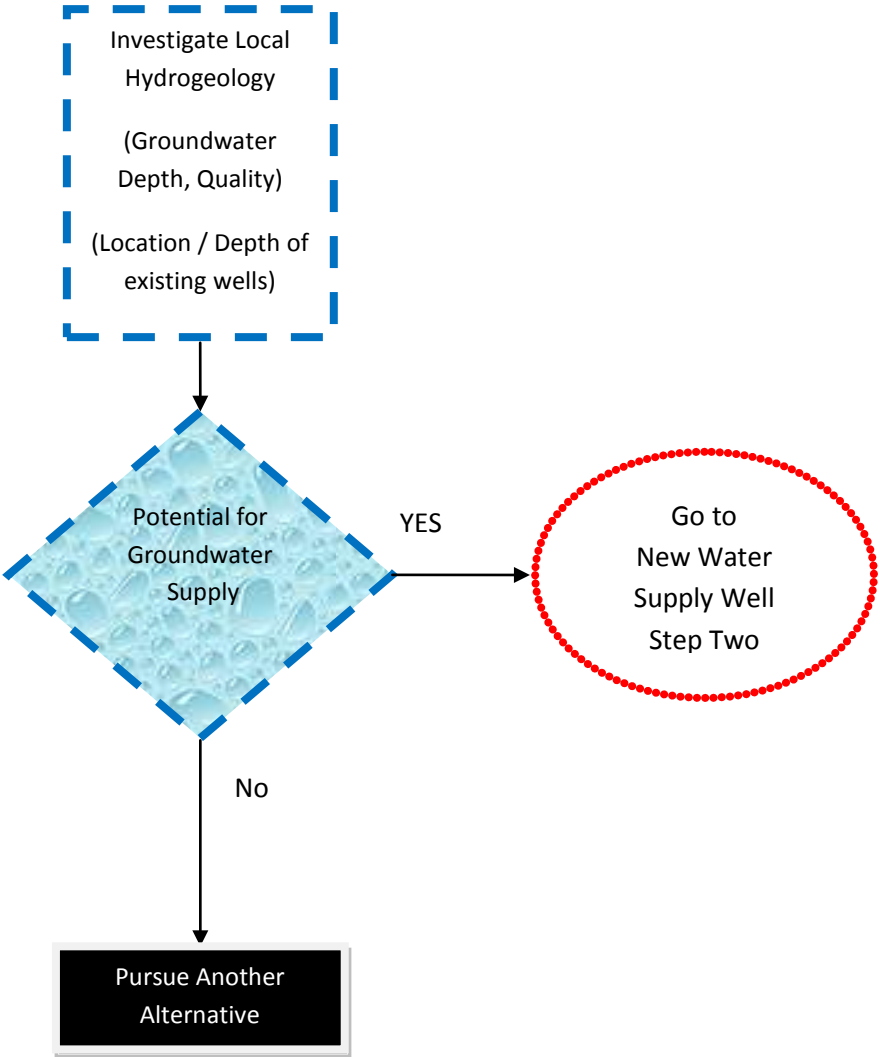
Pursue Another Alternative

See New Water Supply Page 2 of 2

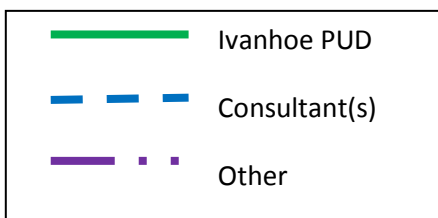
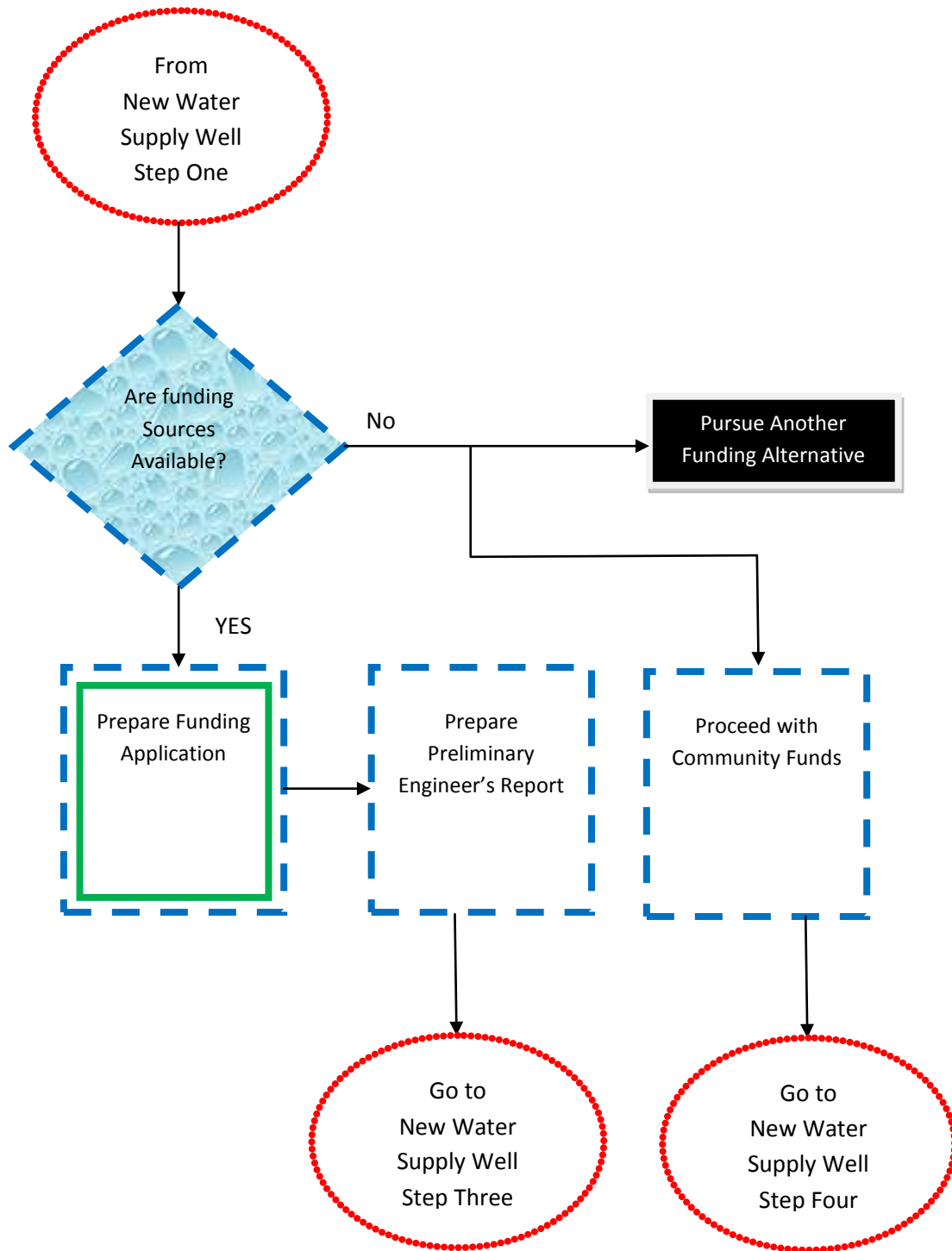




Ivanhoe PUD
New Water Supply Well
Step One

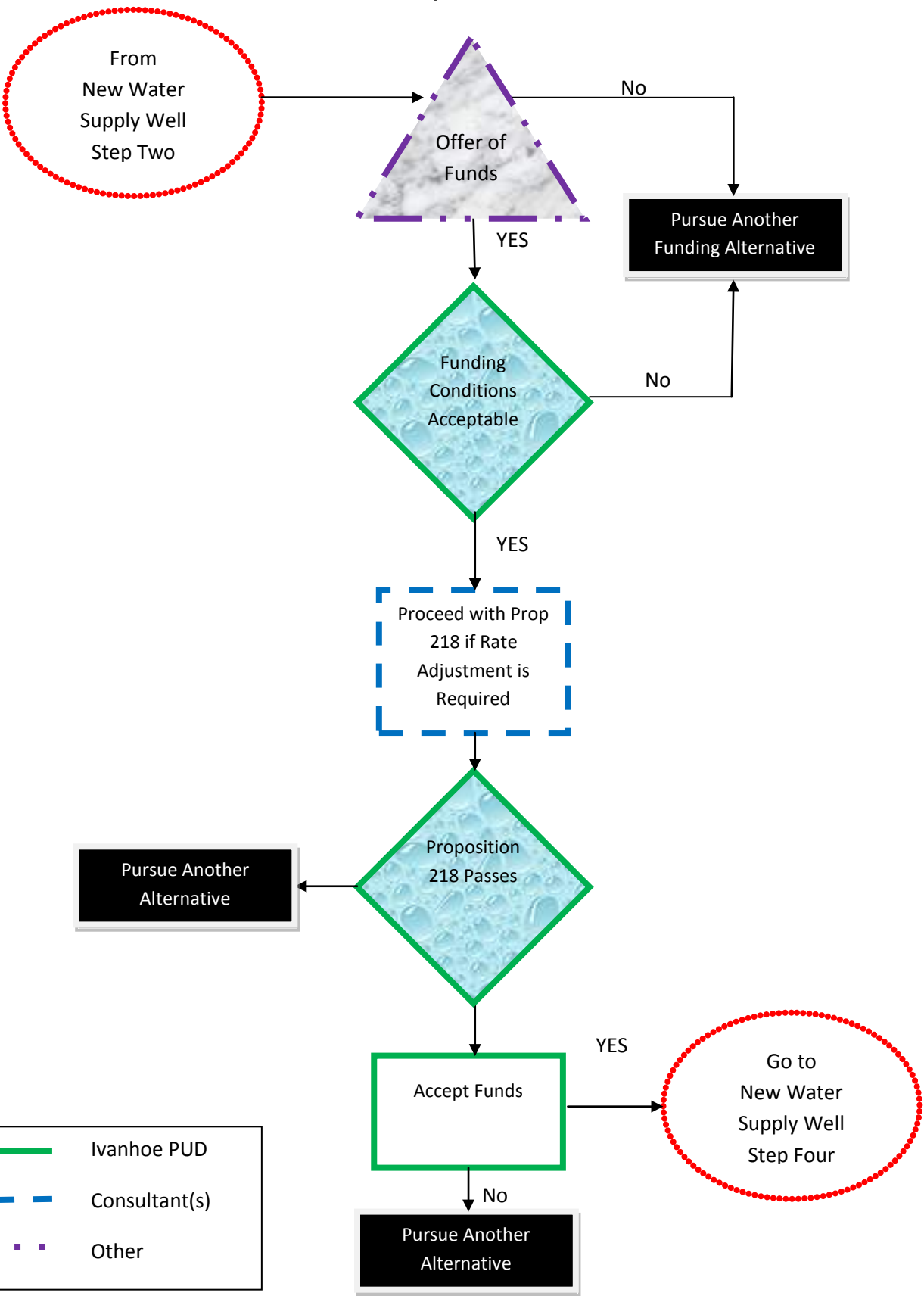


Ivanhoe PUD
New Water Supply Well
Step Two

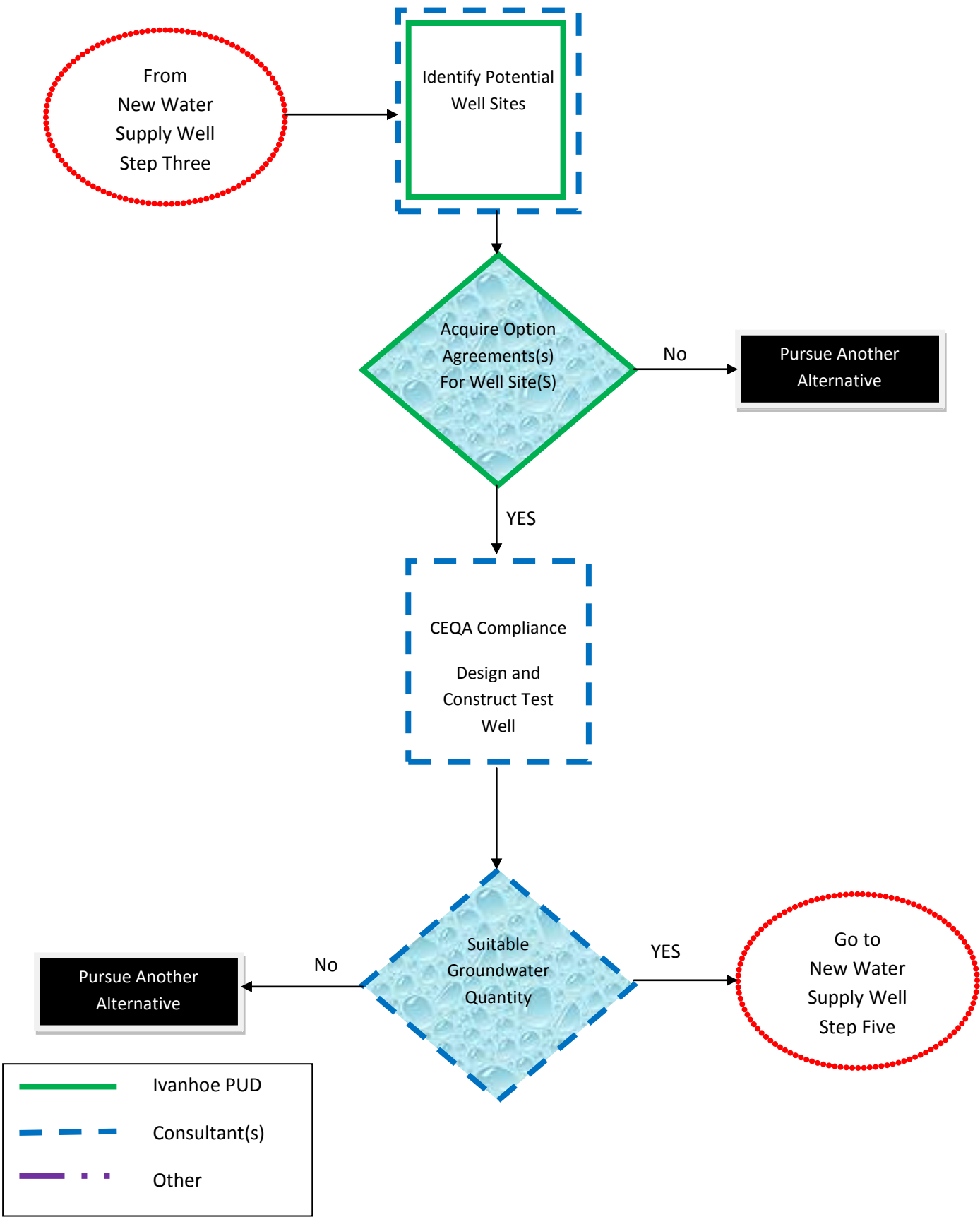


Ivanhoe PUD
New Water Supply Well

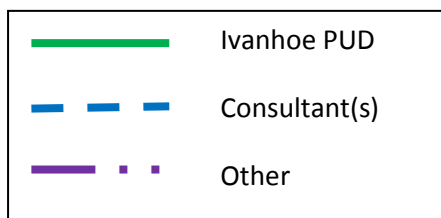
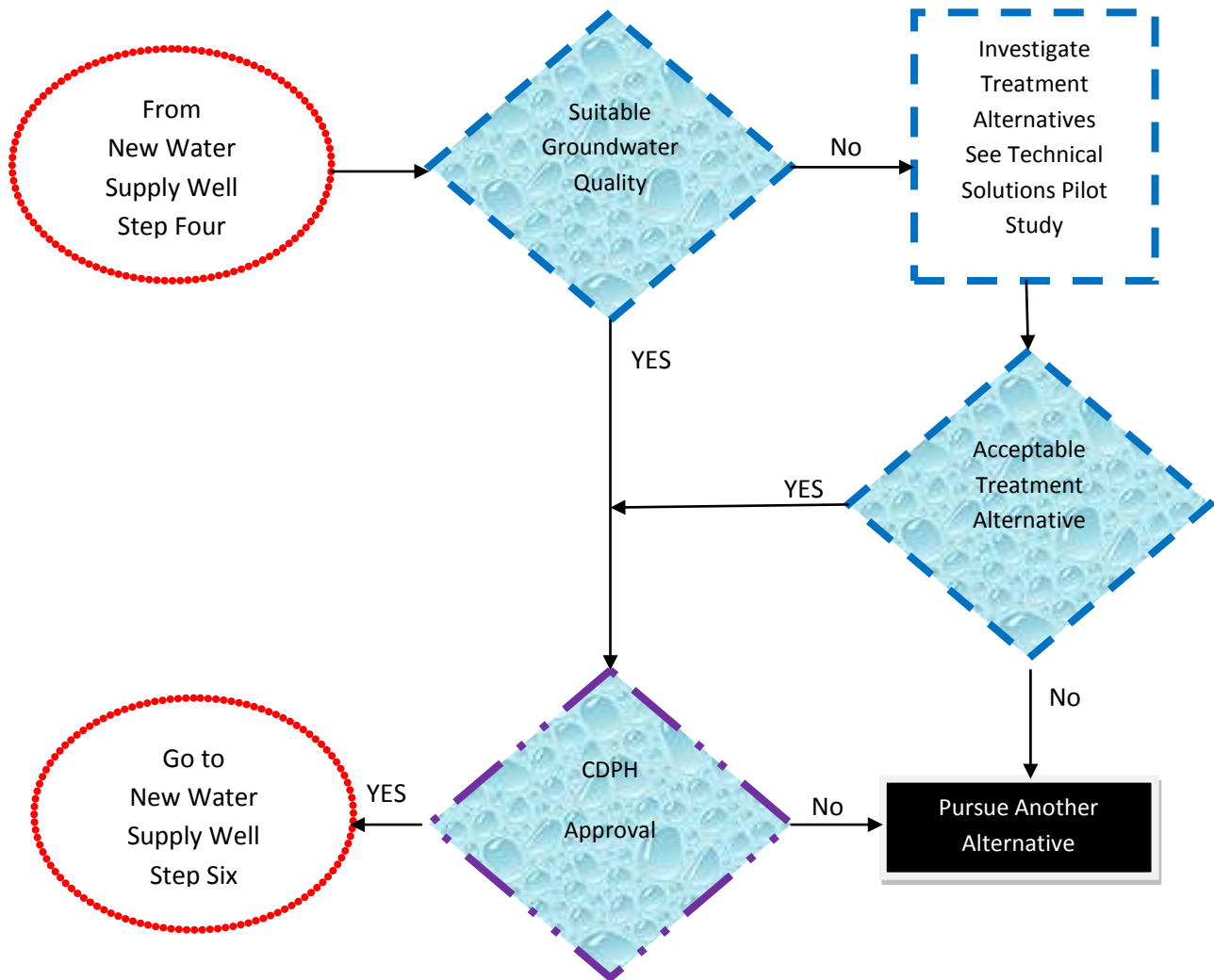
Step Three



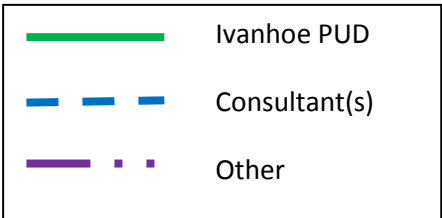
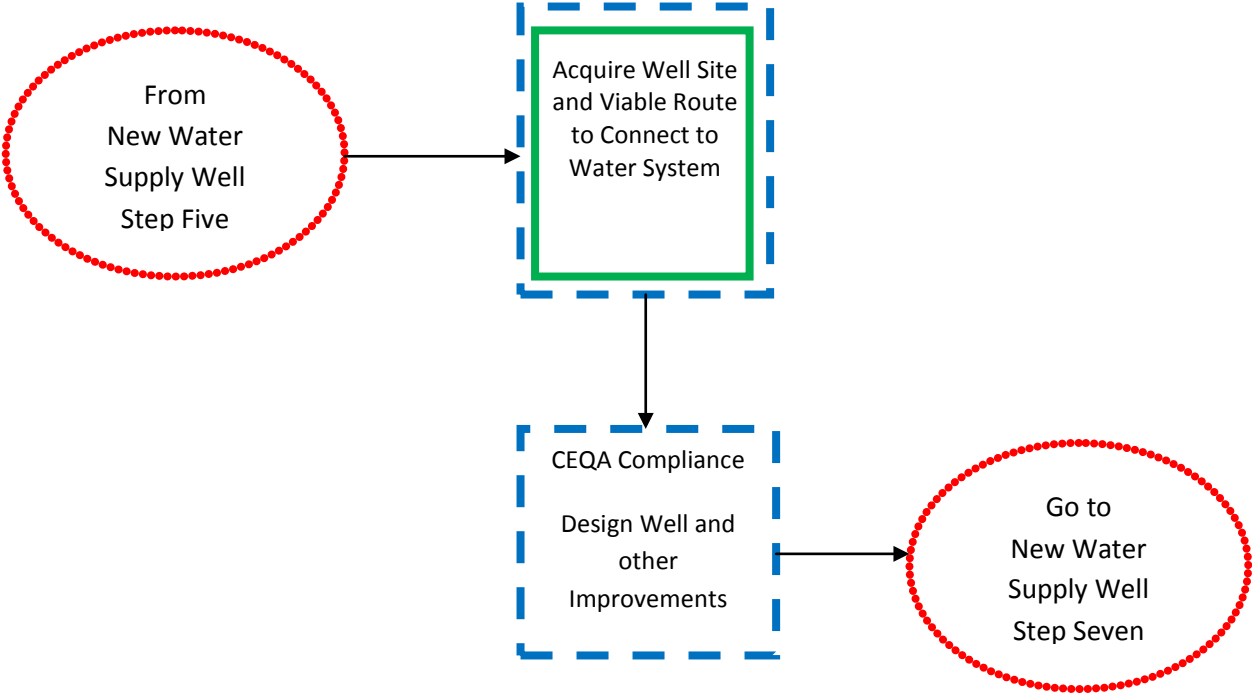
Ivanhoe PUD
New Water Supply Well
Step Four



Ivanhoe PUD
New Water Supply Well
Step Five

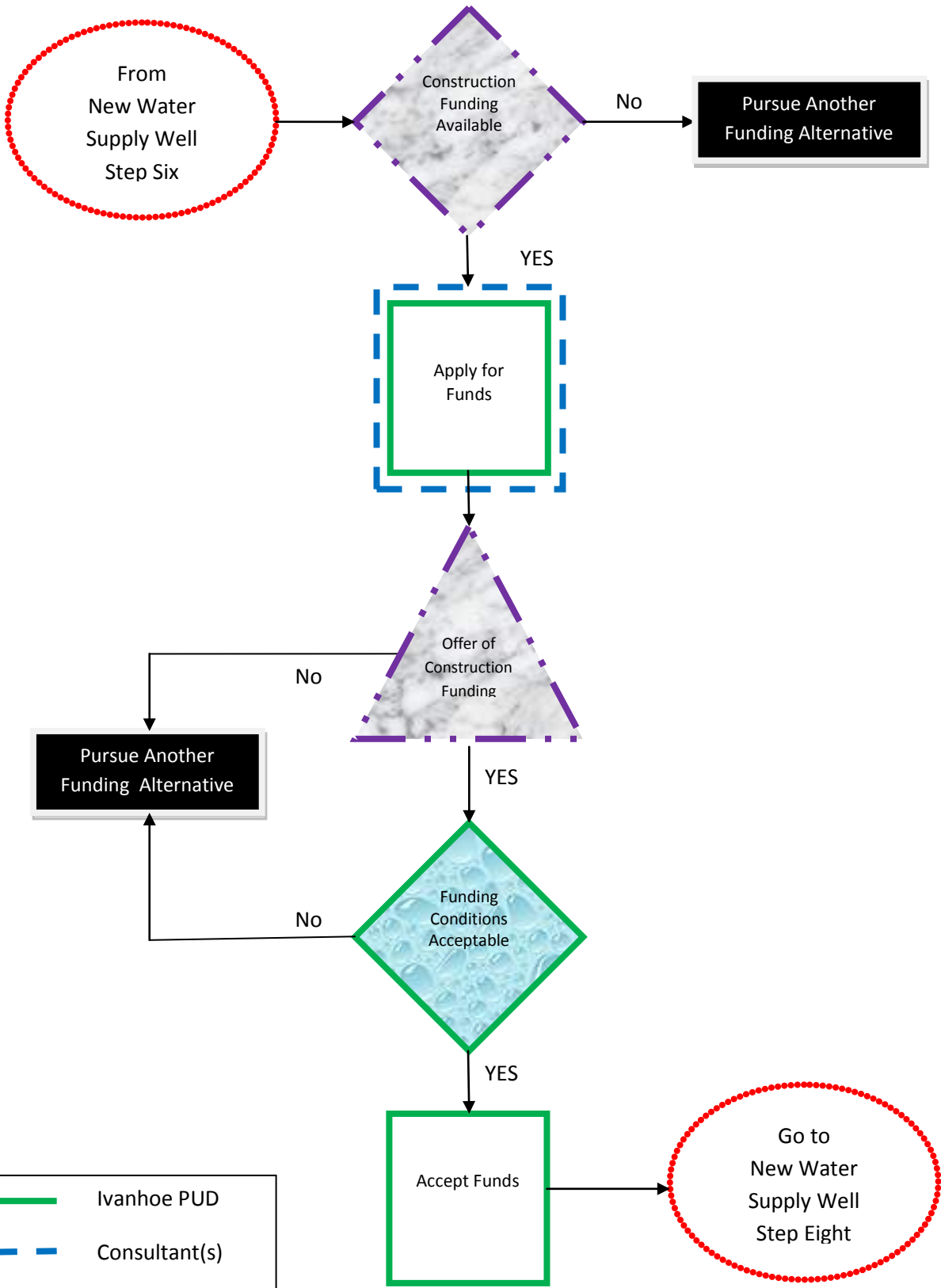


Ivanhoe PUD
New Water Supply Well
Step Six

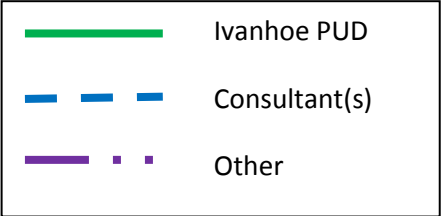
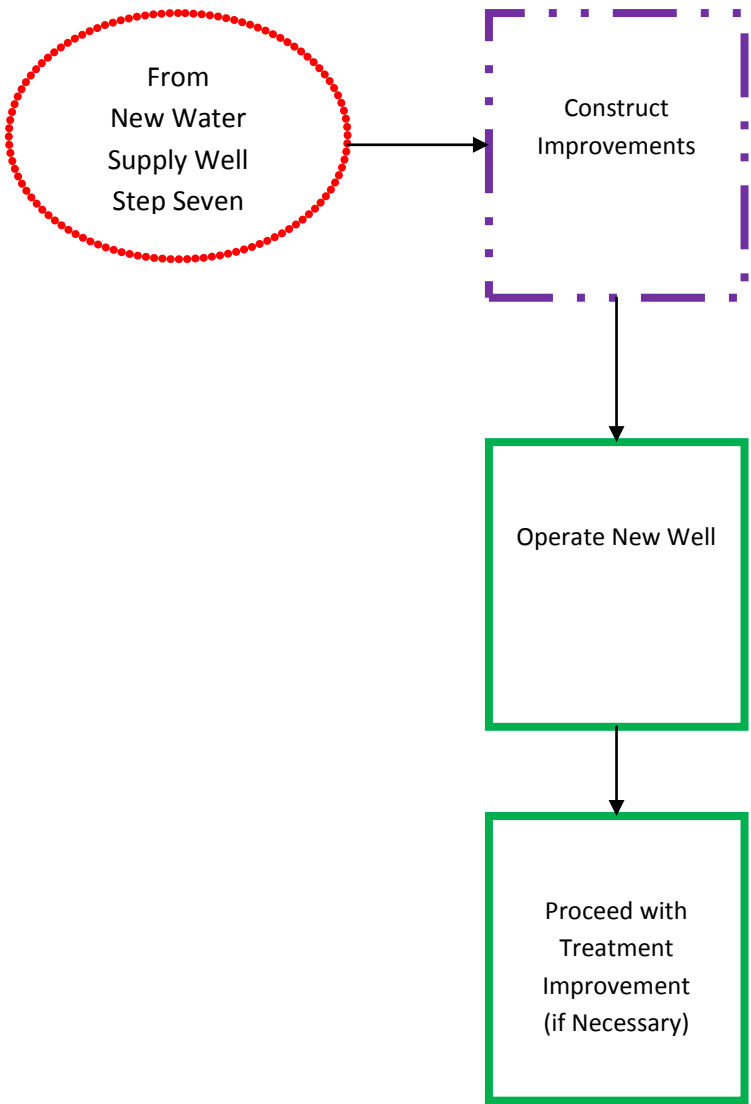


Ivanhoe PUD
New Water Supply Well
Step Seven

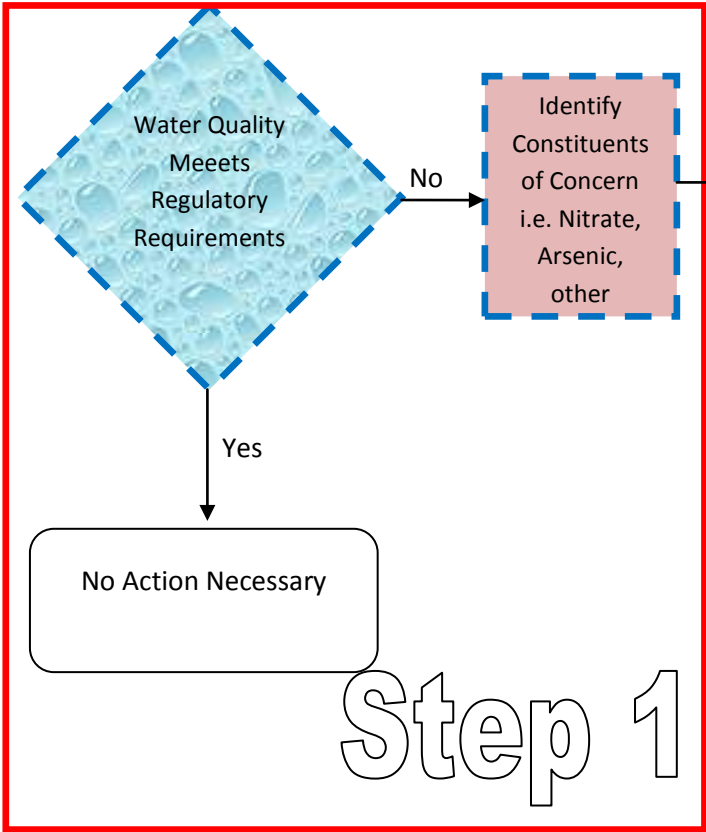
Offer of Construction Funding



Ivanhoe PUD
New Water Supply Well
Step Eight



start

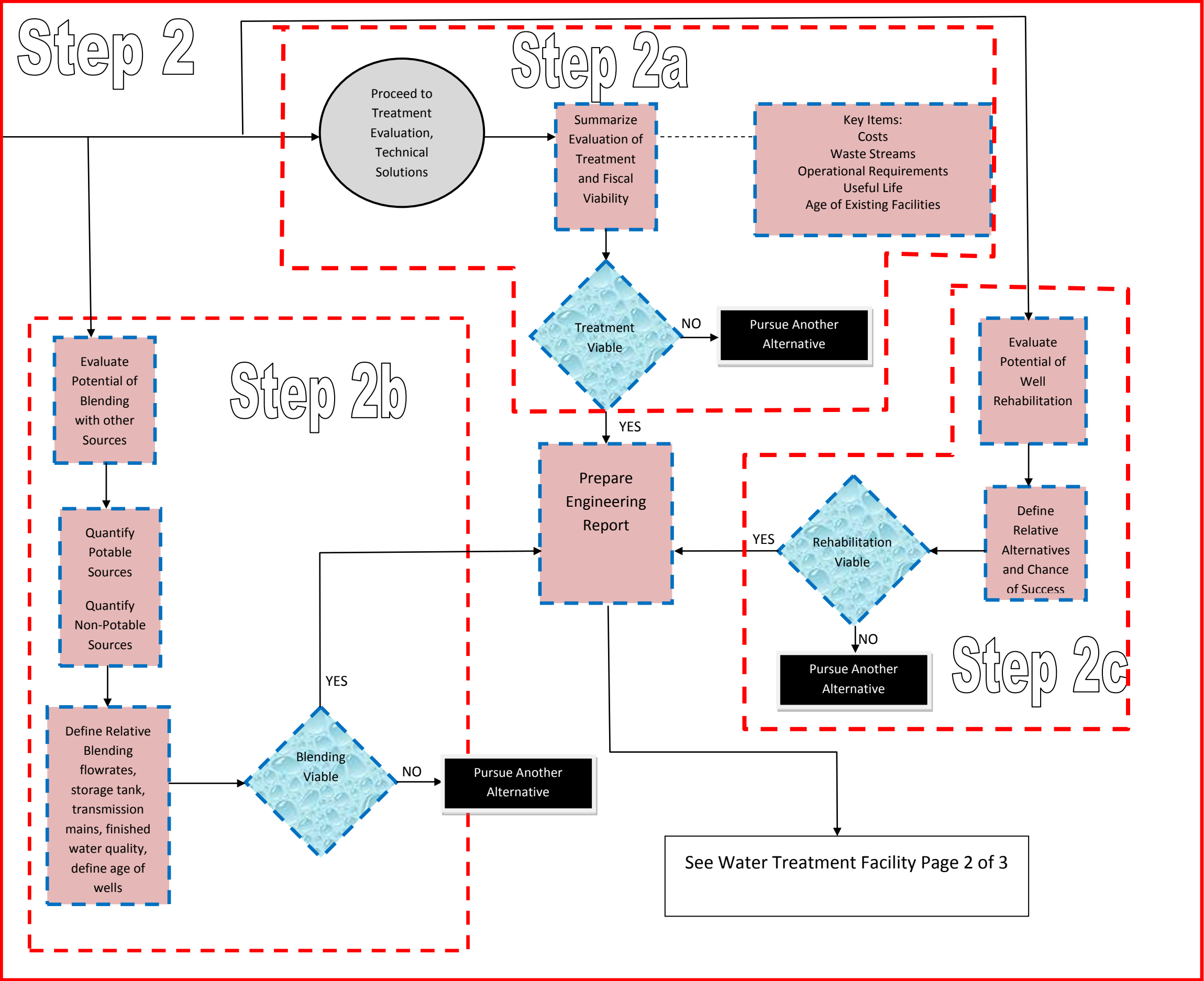
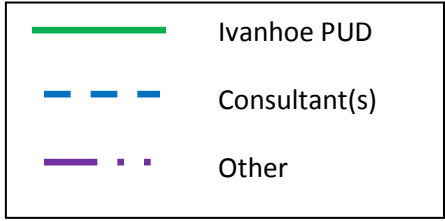


Step 2

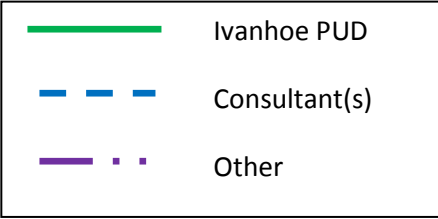
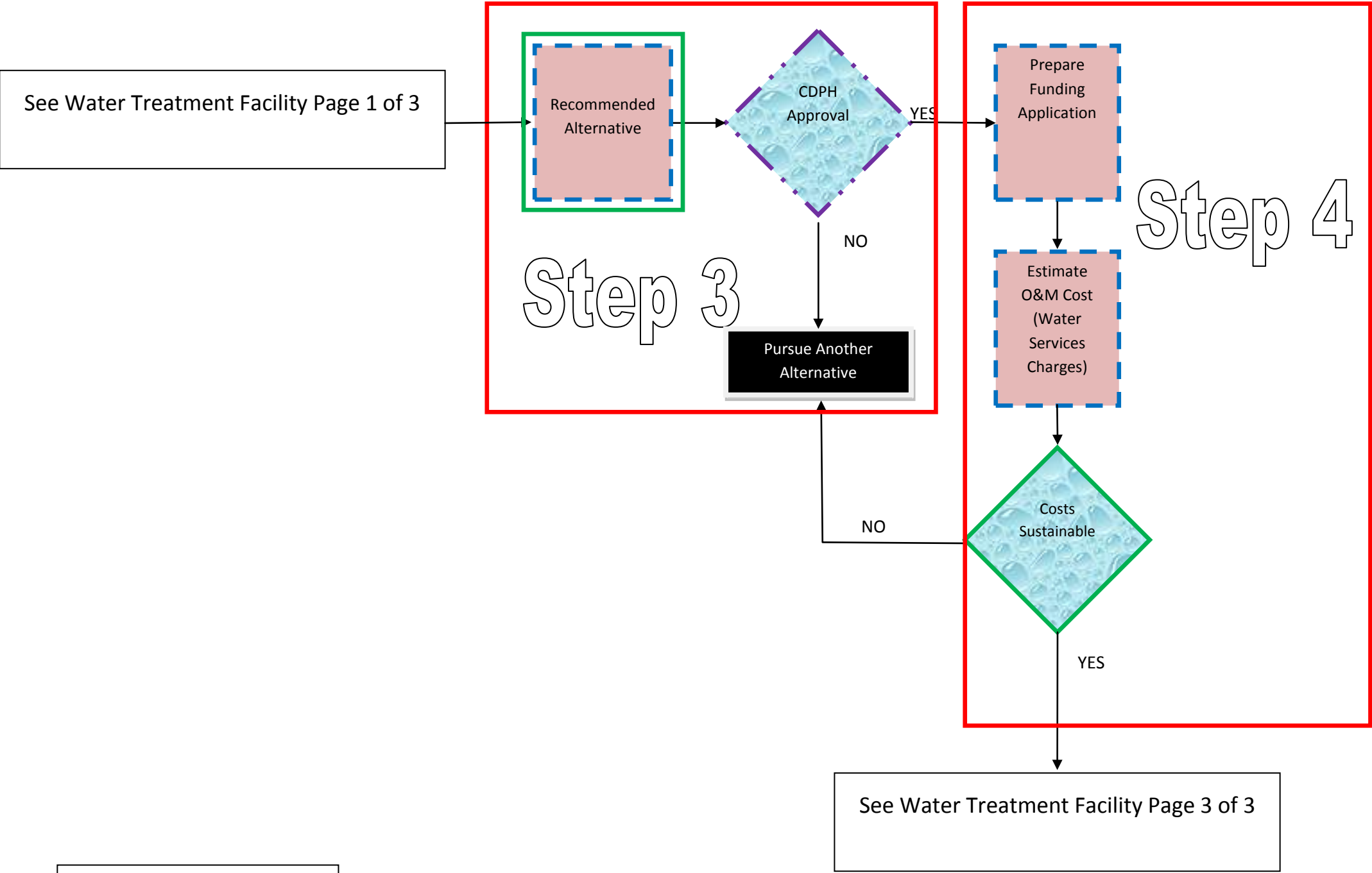
Step 2a

Step 2b

Step 2c

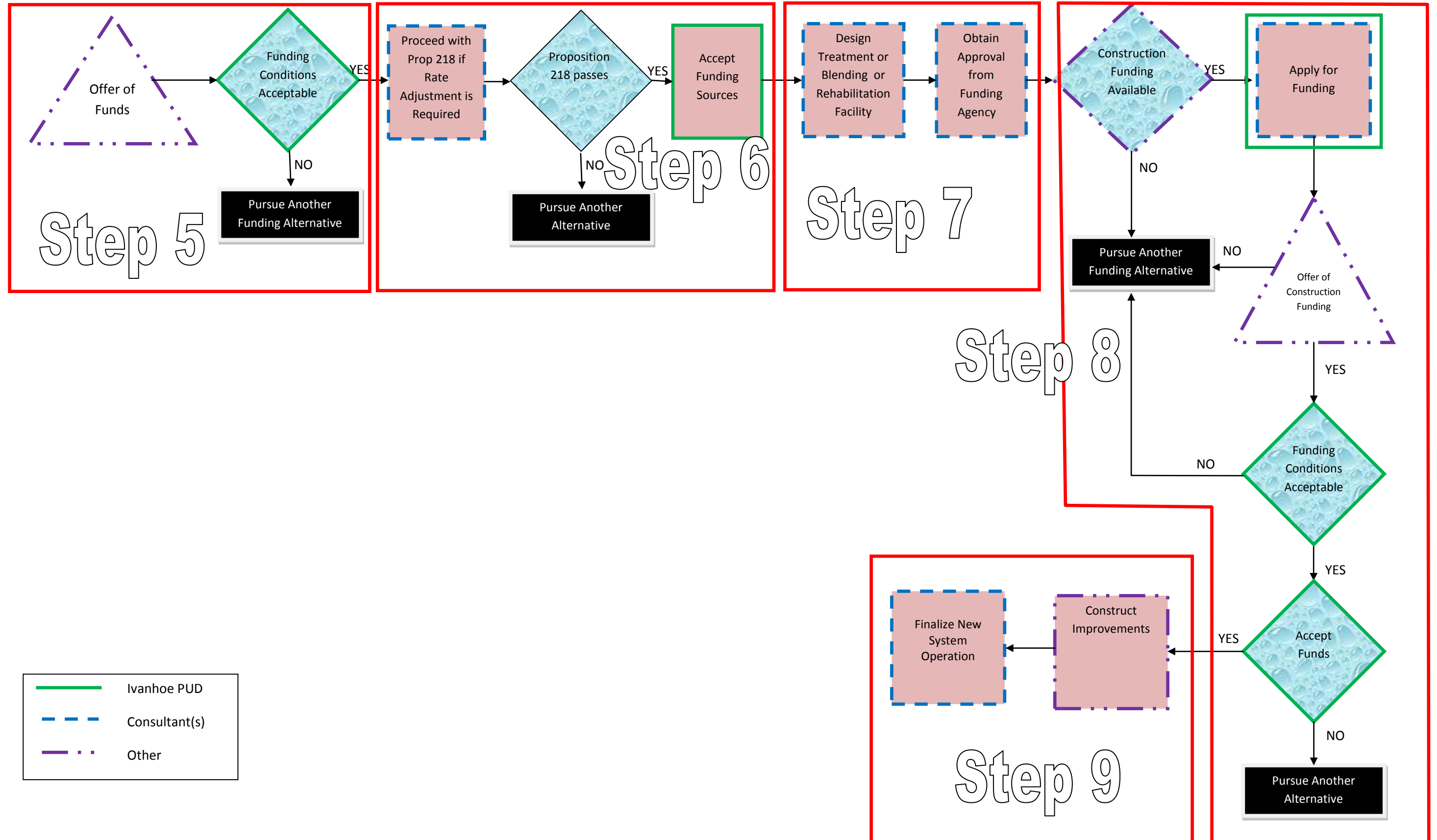


Water Treatment Facility
On a Water Supply Well

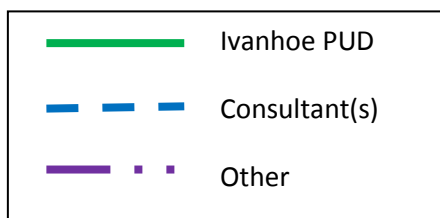
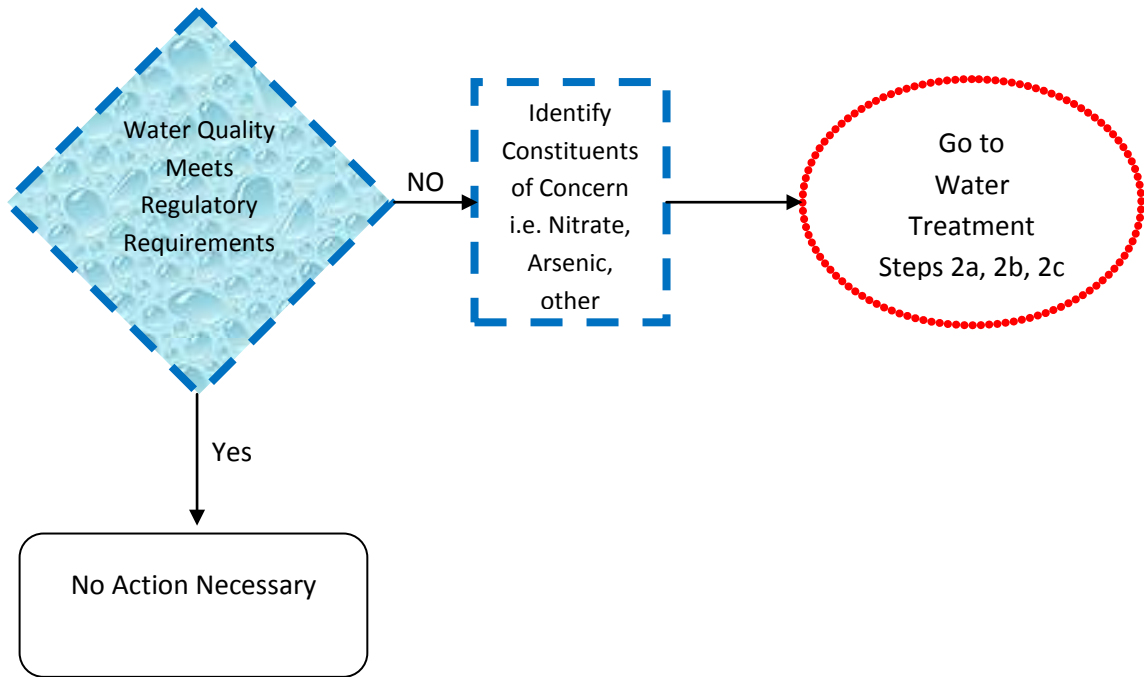


Water Treatment Facility
On a Water Supply Well

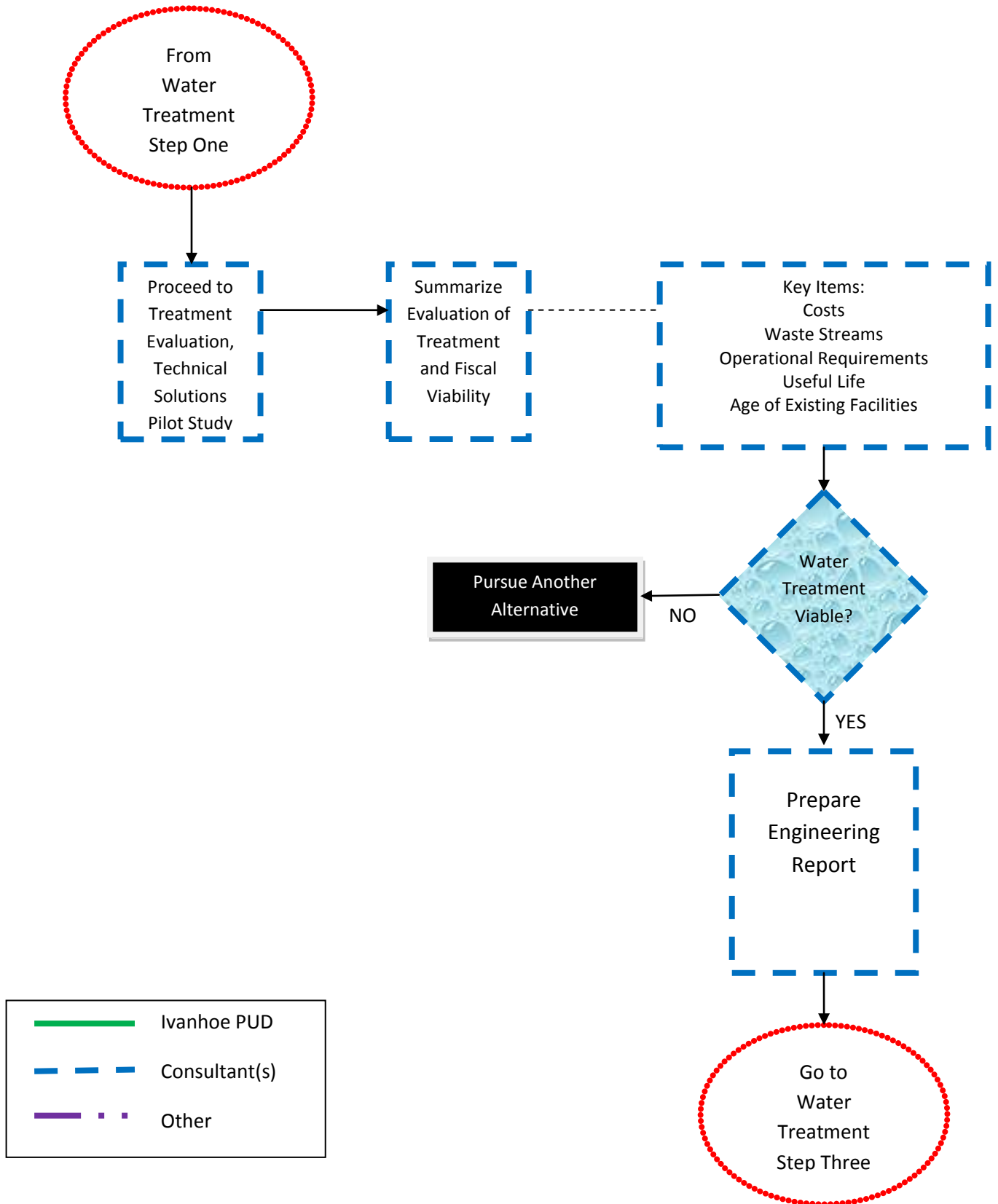
Ivanhoe PUD



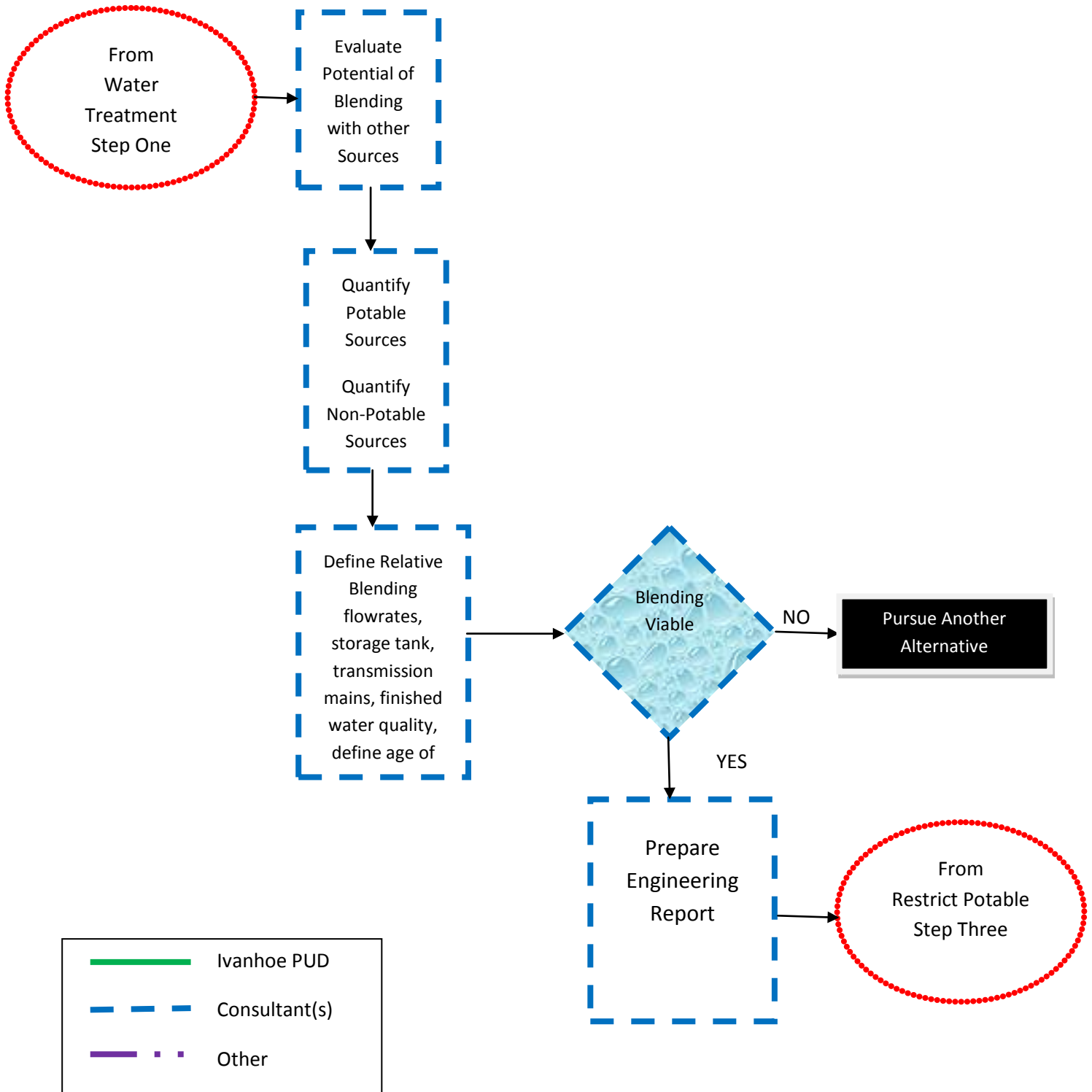
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step One



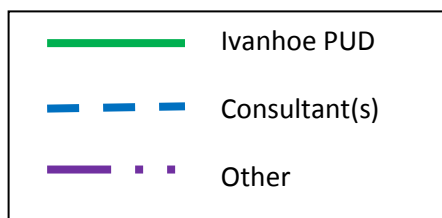
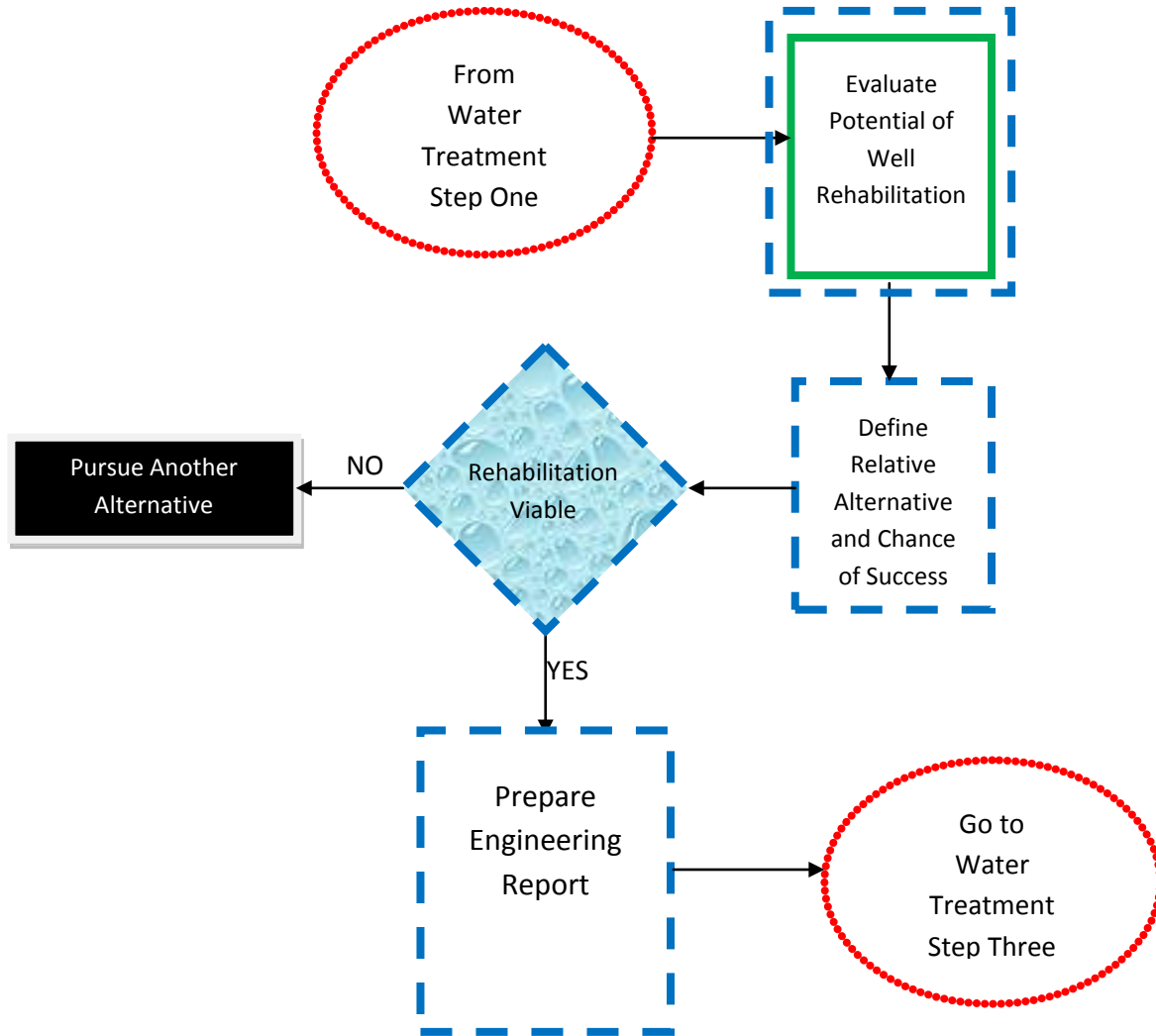
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2a



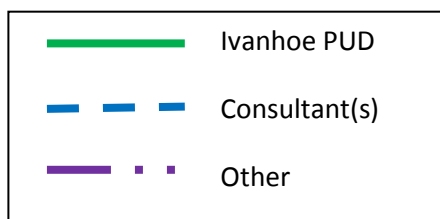
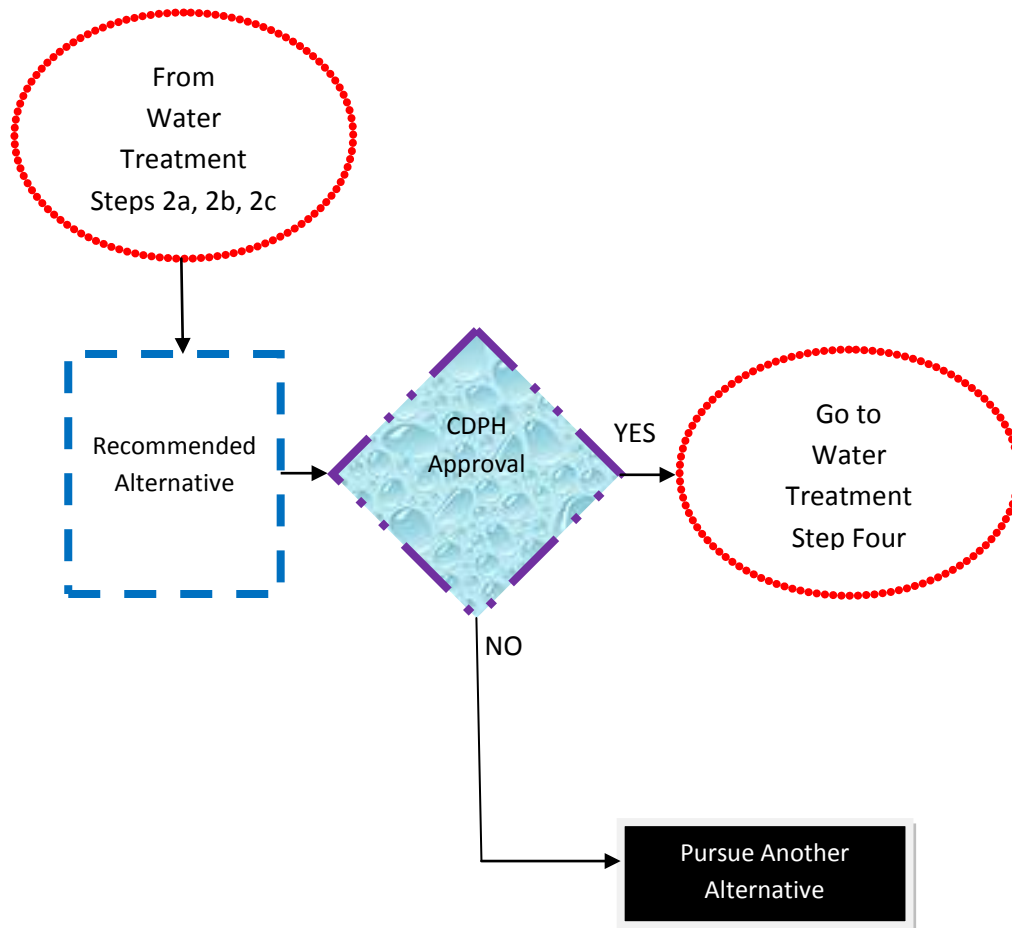
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2b



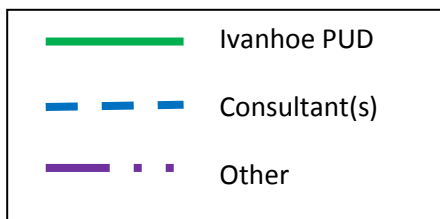
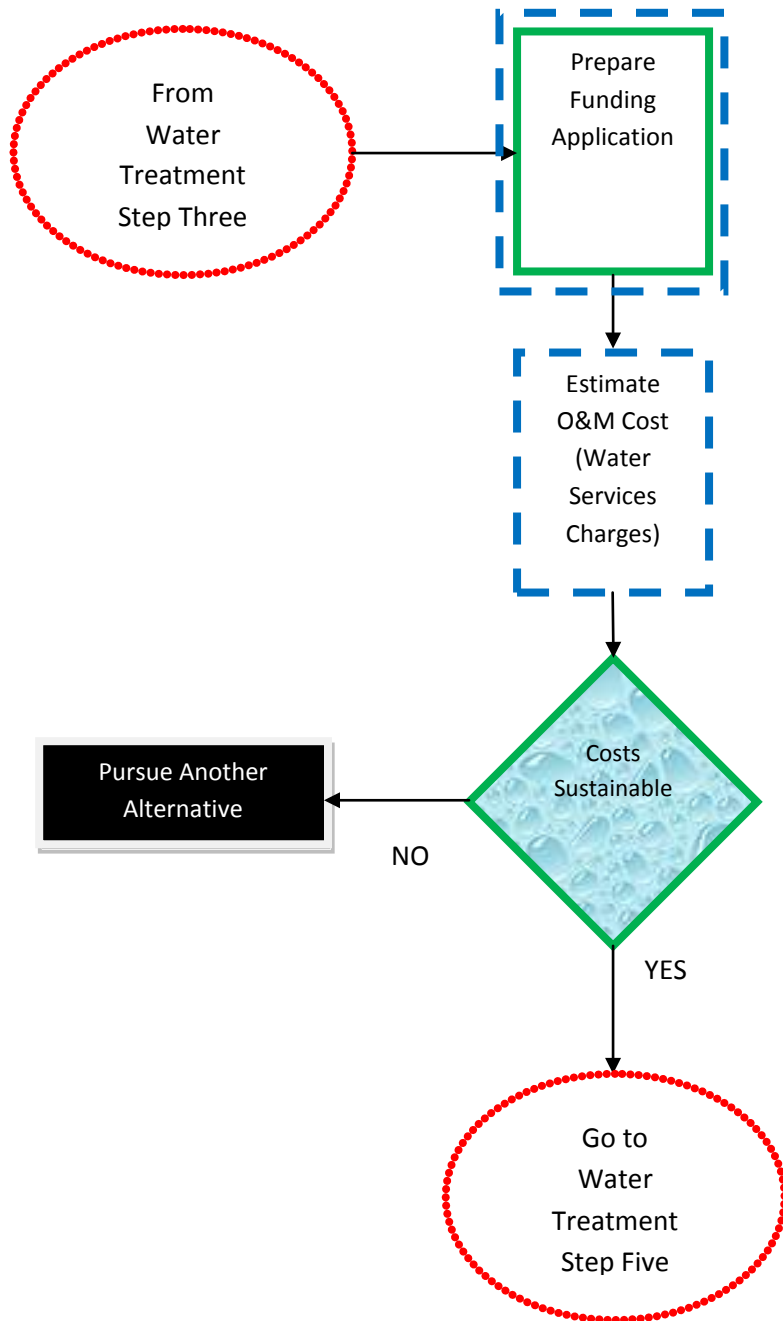
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2c



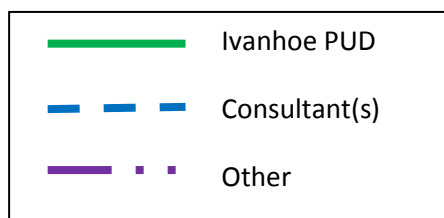
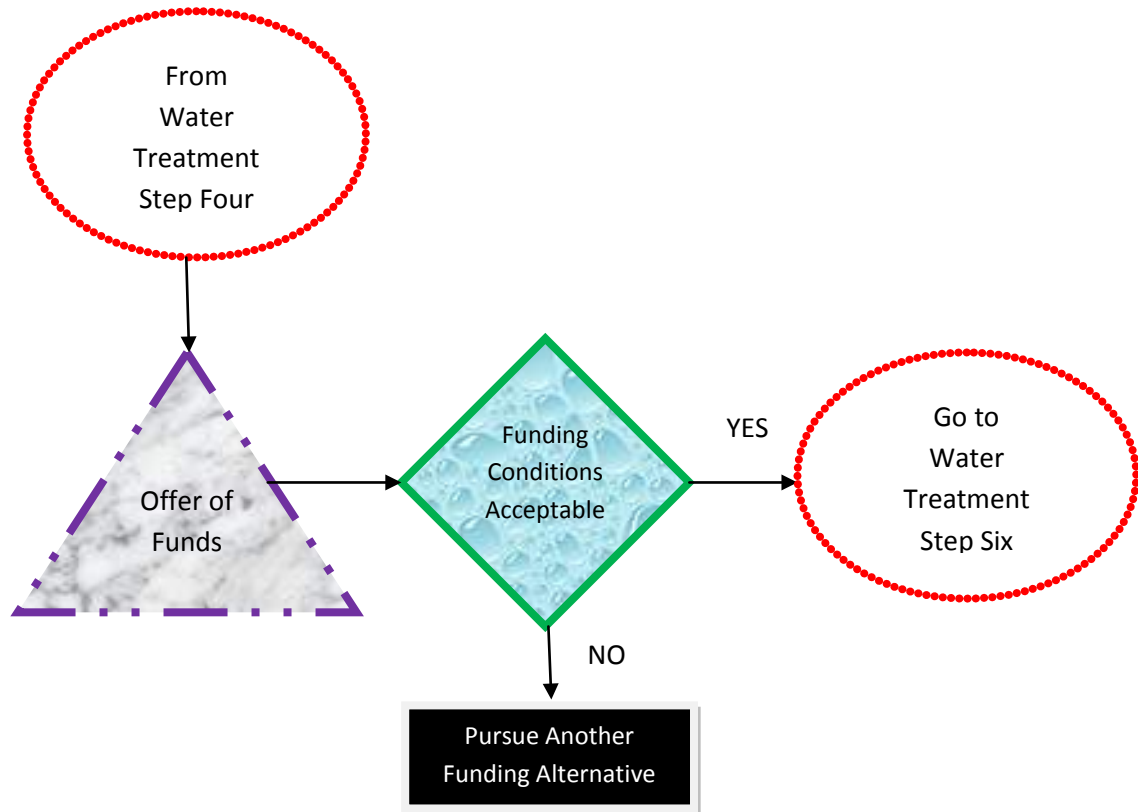
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 3



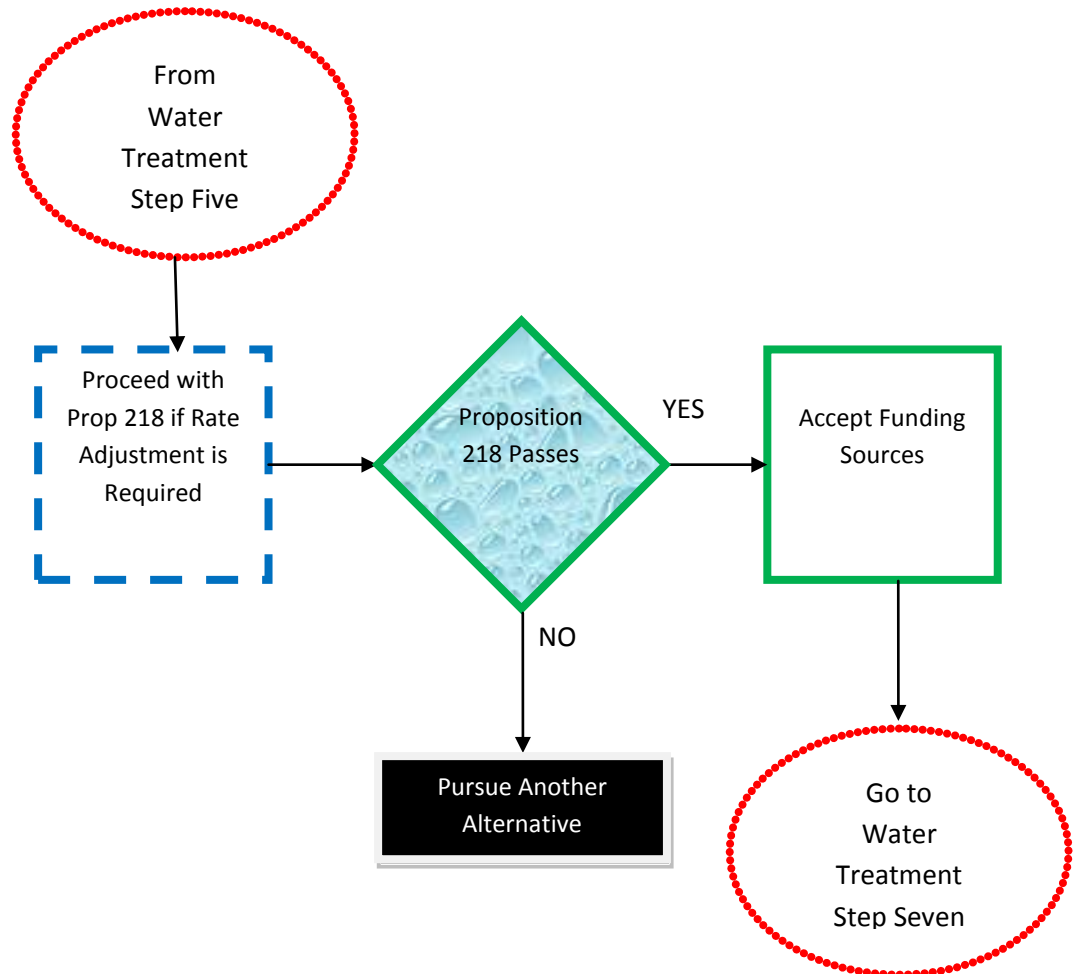
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 4



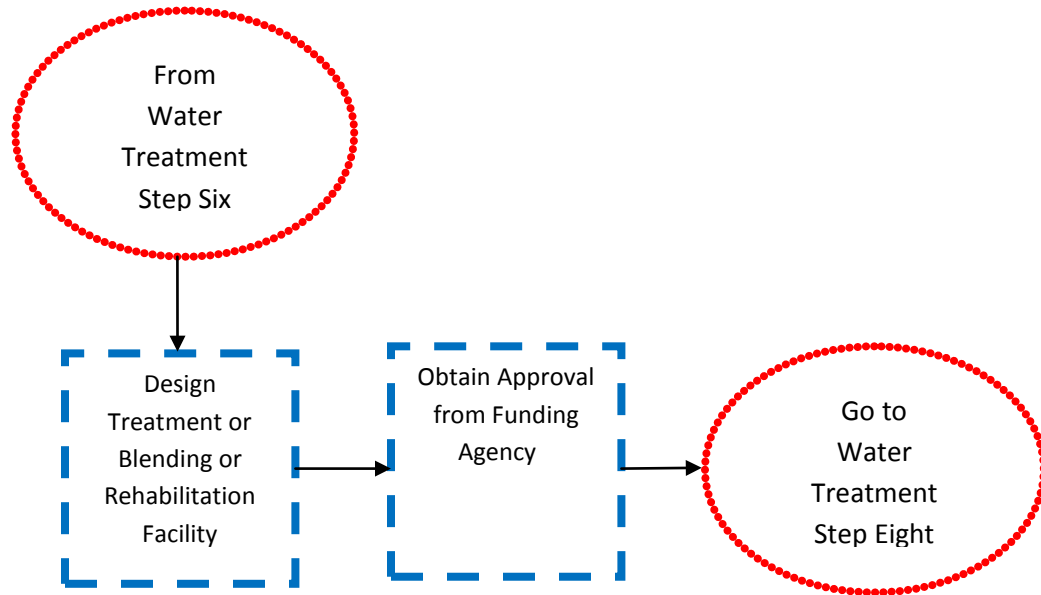
Ivanhoe PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 5



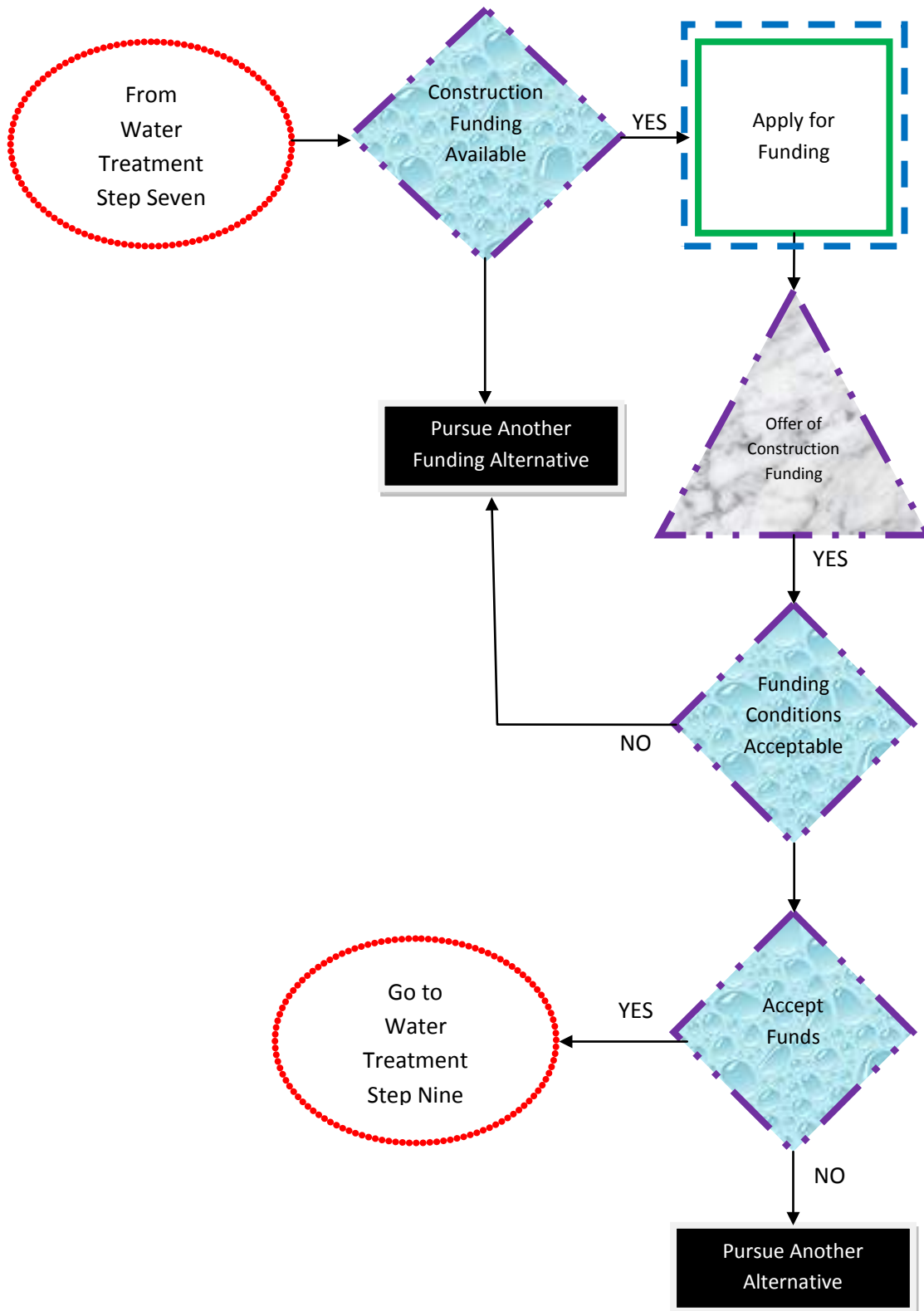
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Water Treatment Facility
On a New or Existing Water Supply Well
Step 6



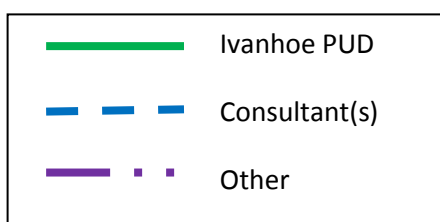
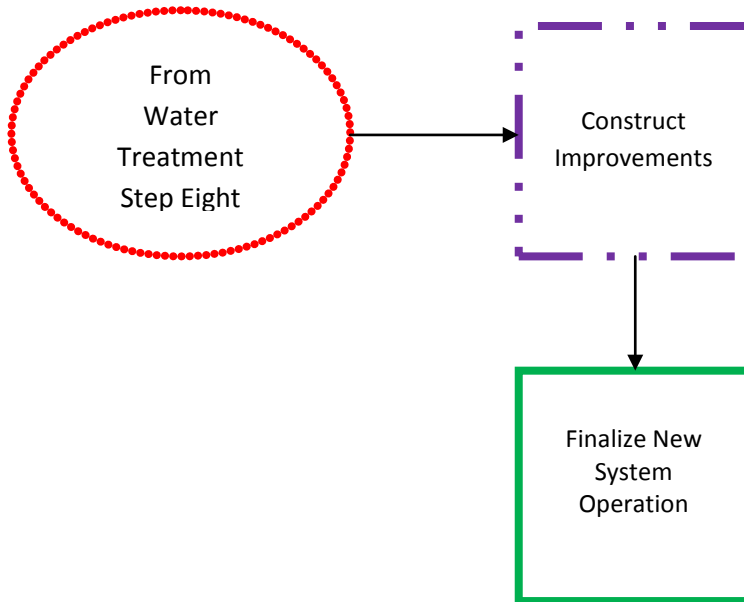
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Step 7



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Step 8



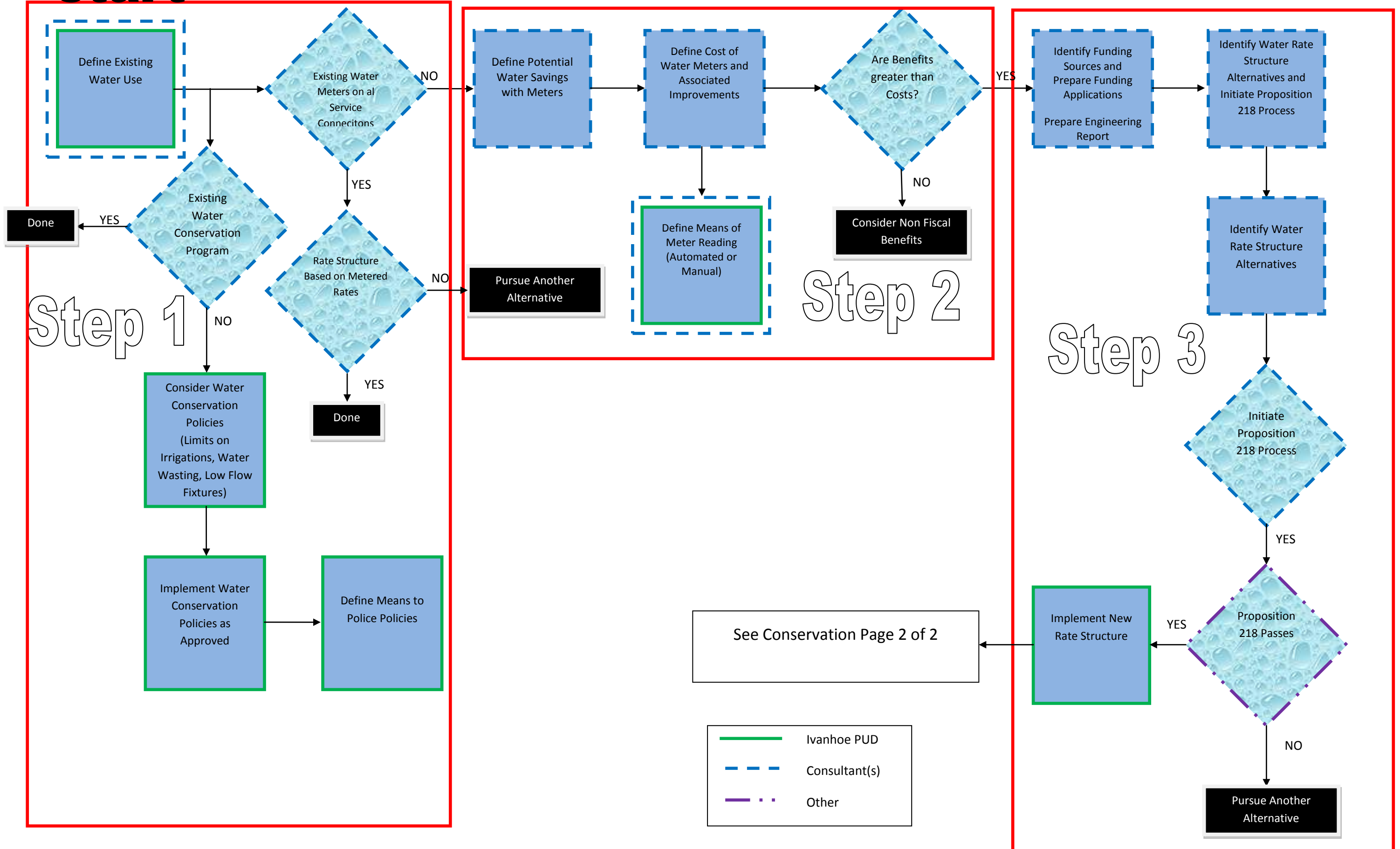
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Step 9

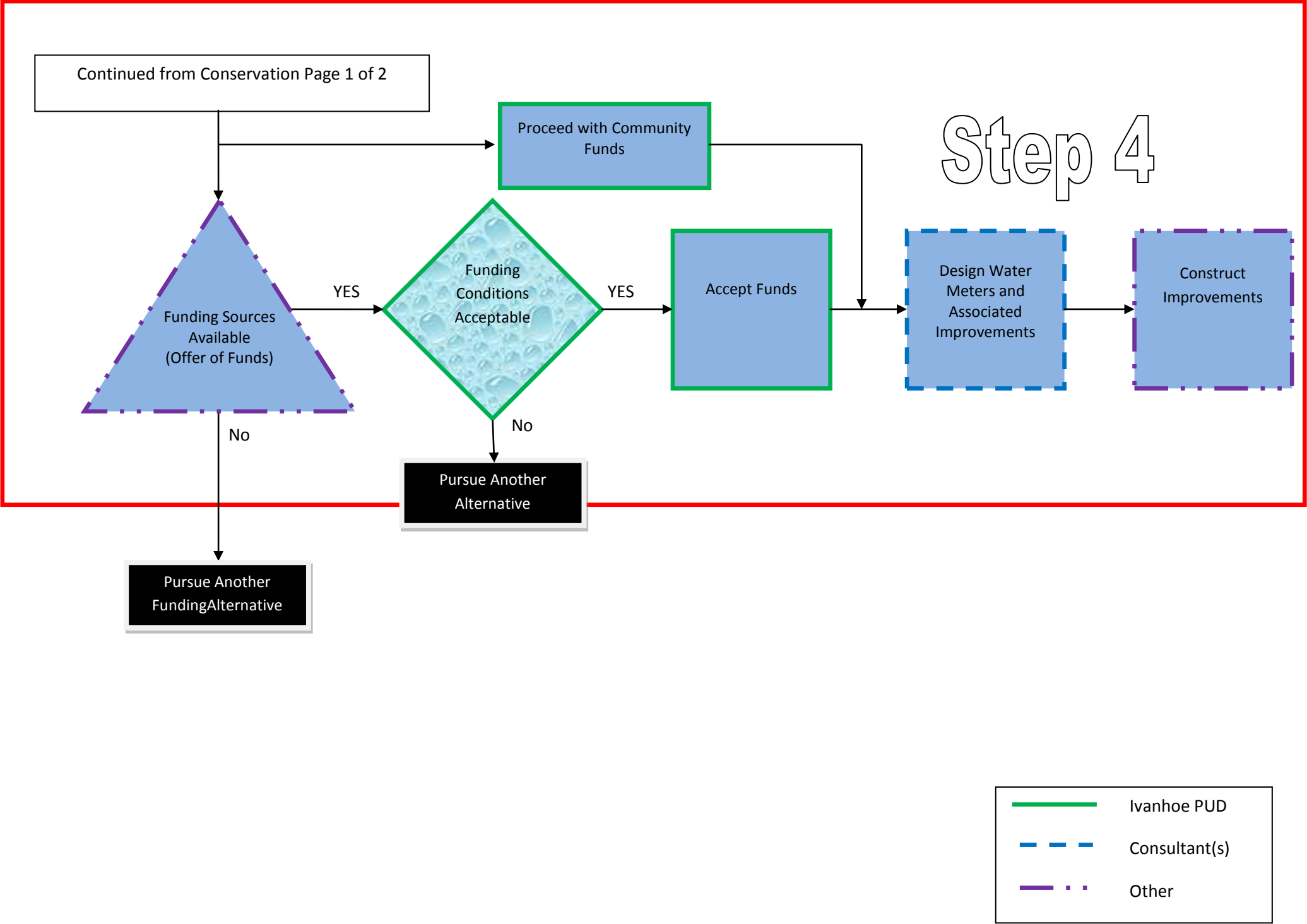


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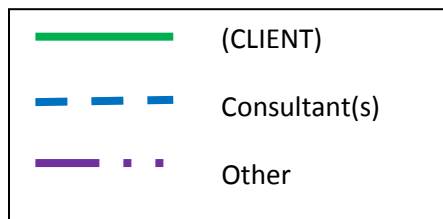
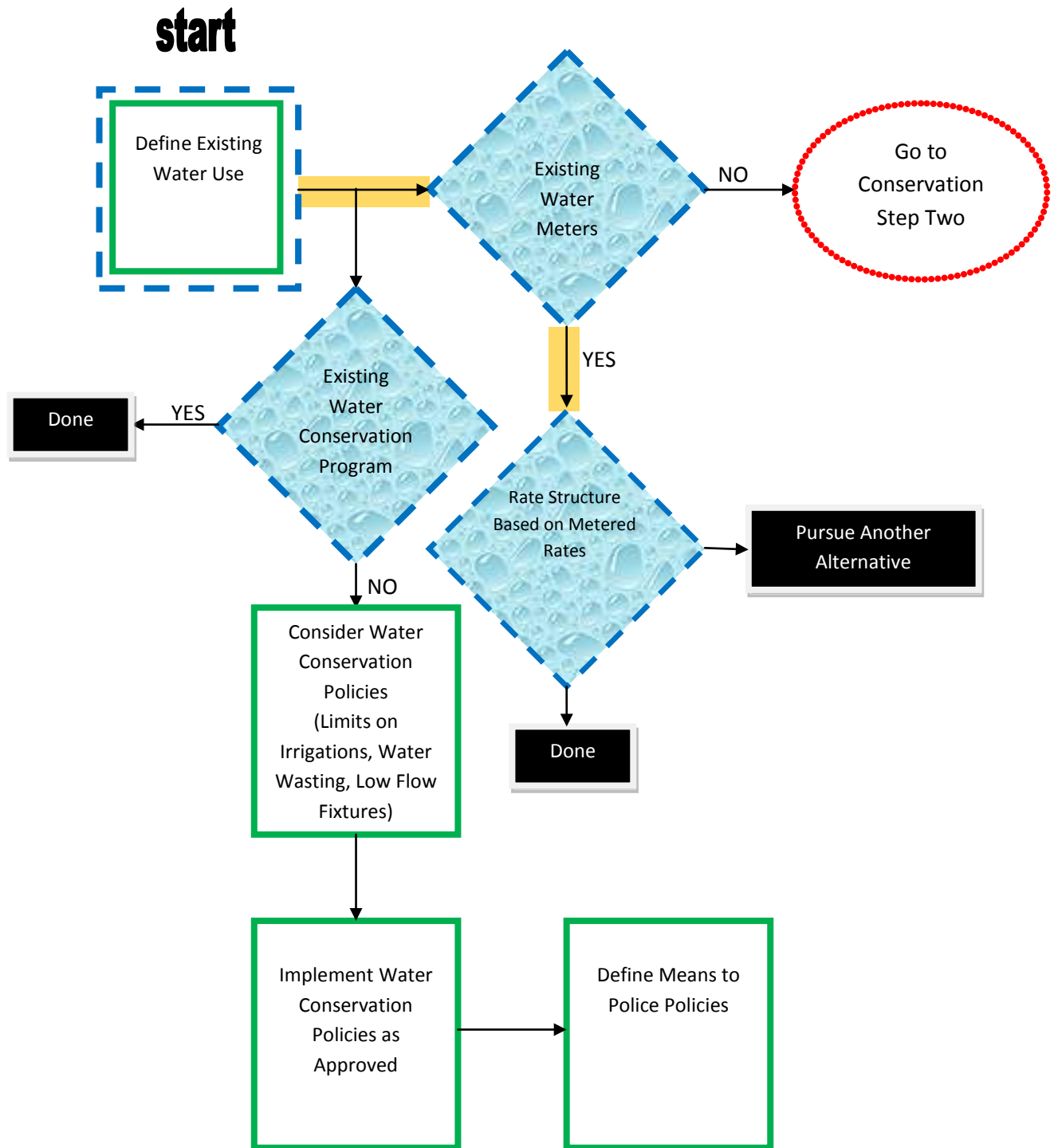
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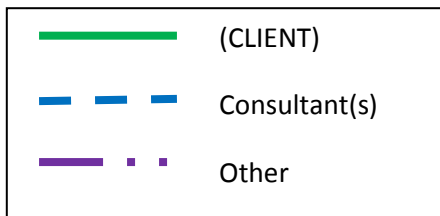
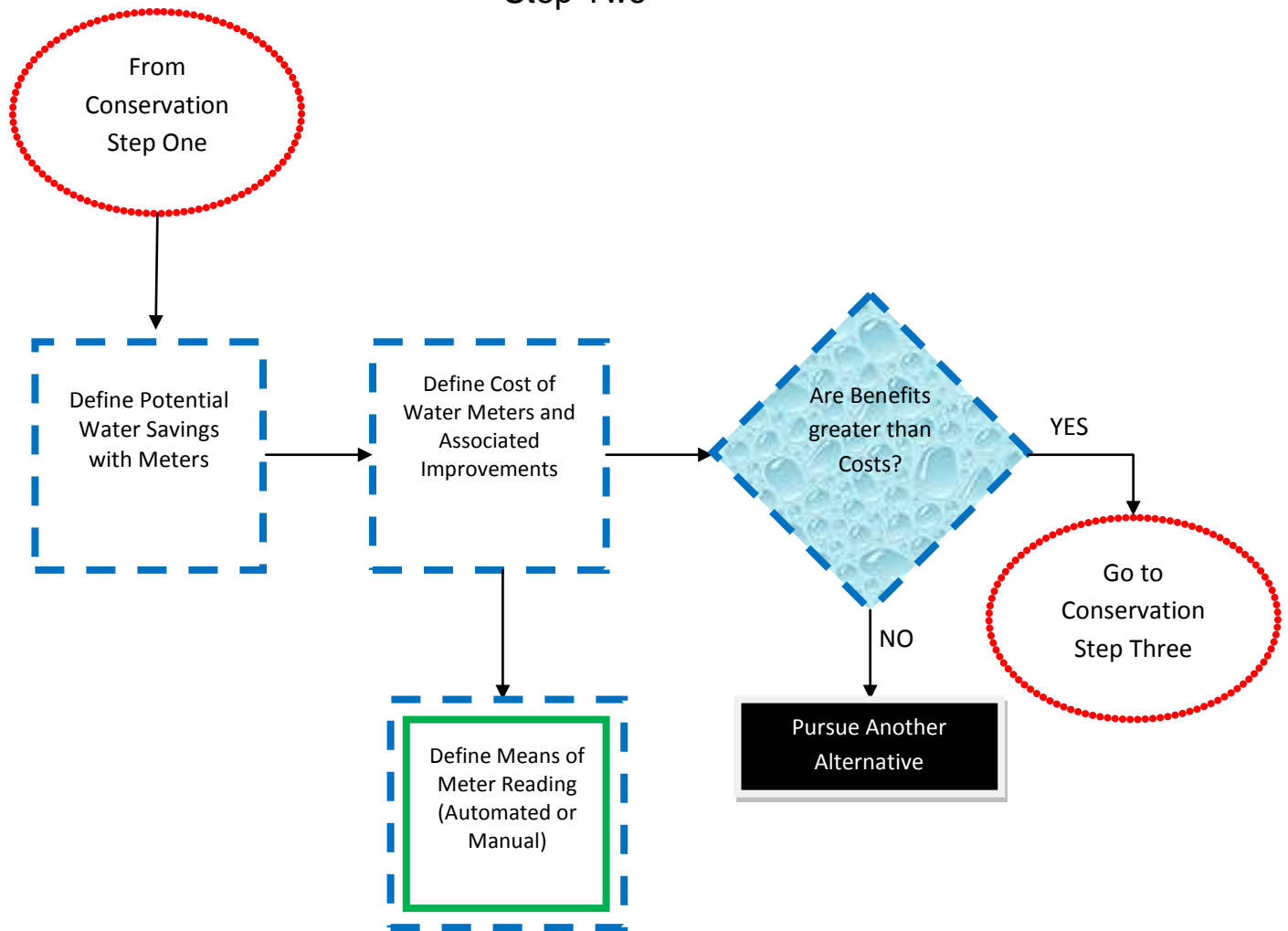




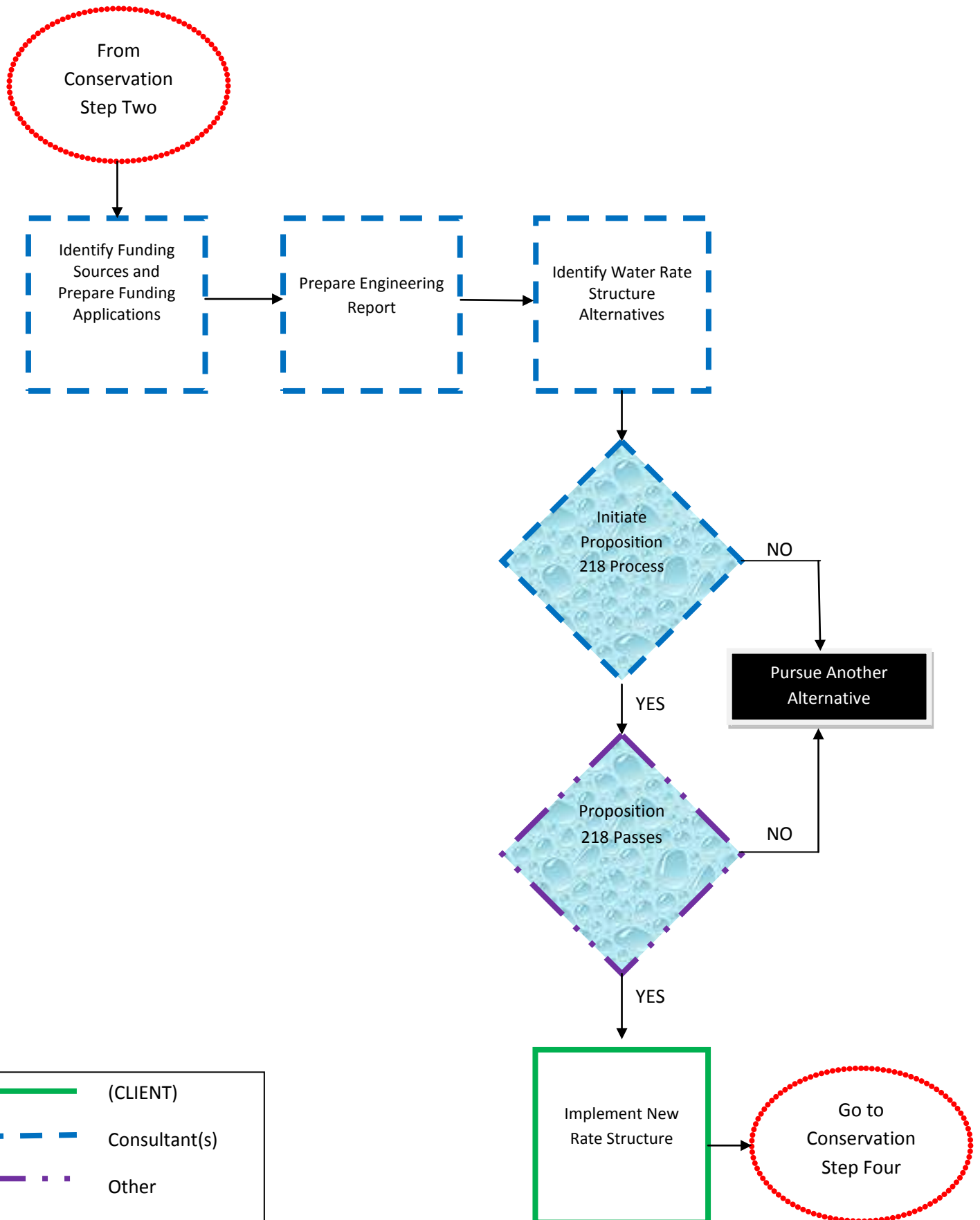
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Step One



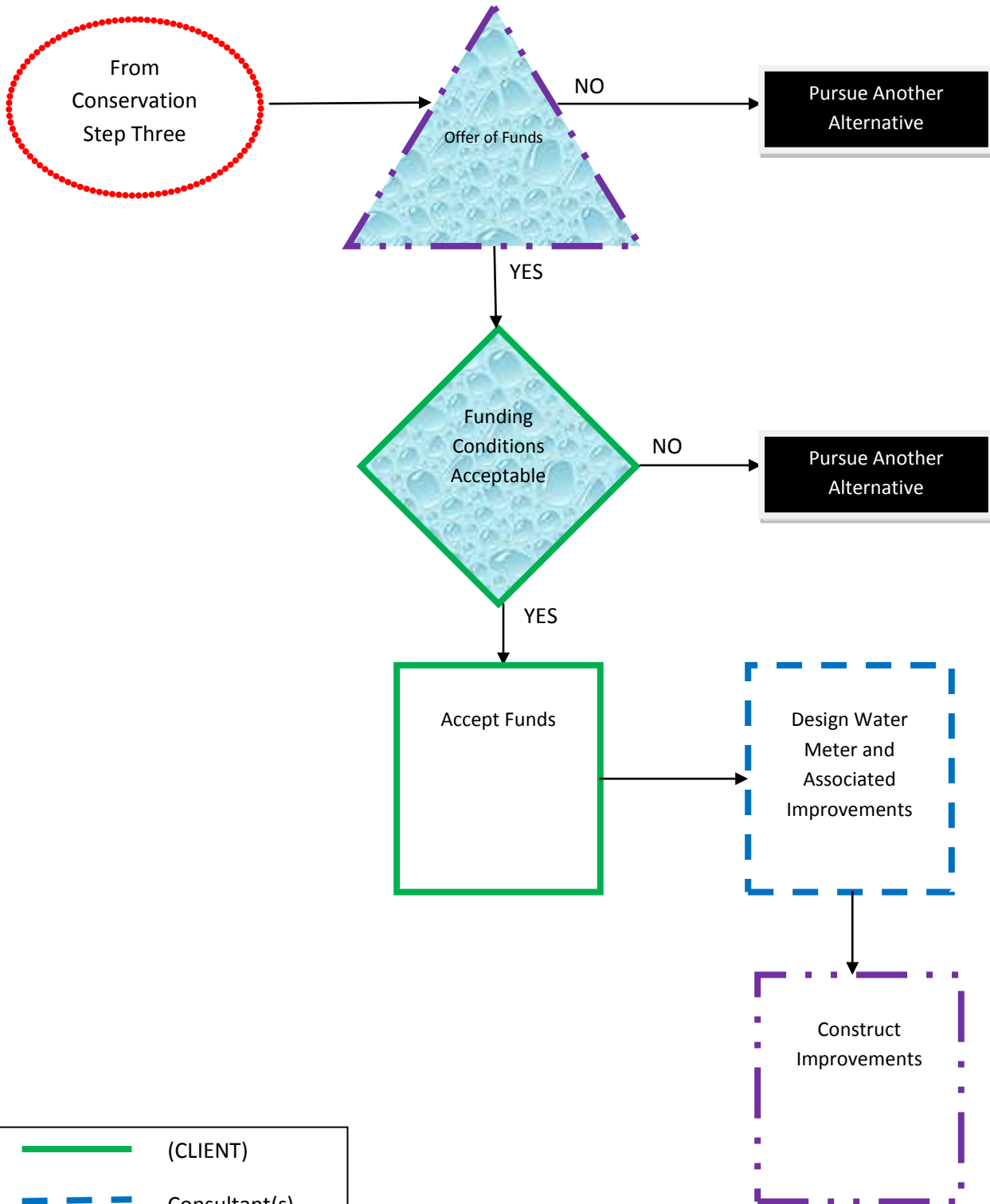
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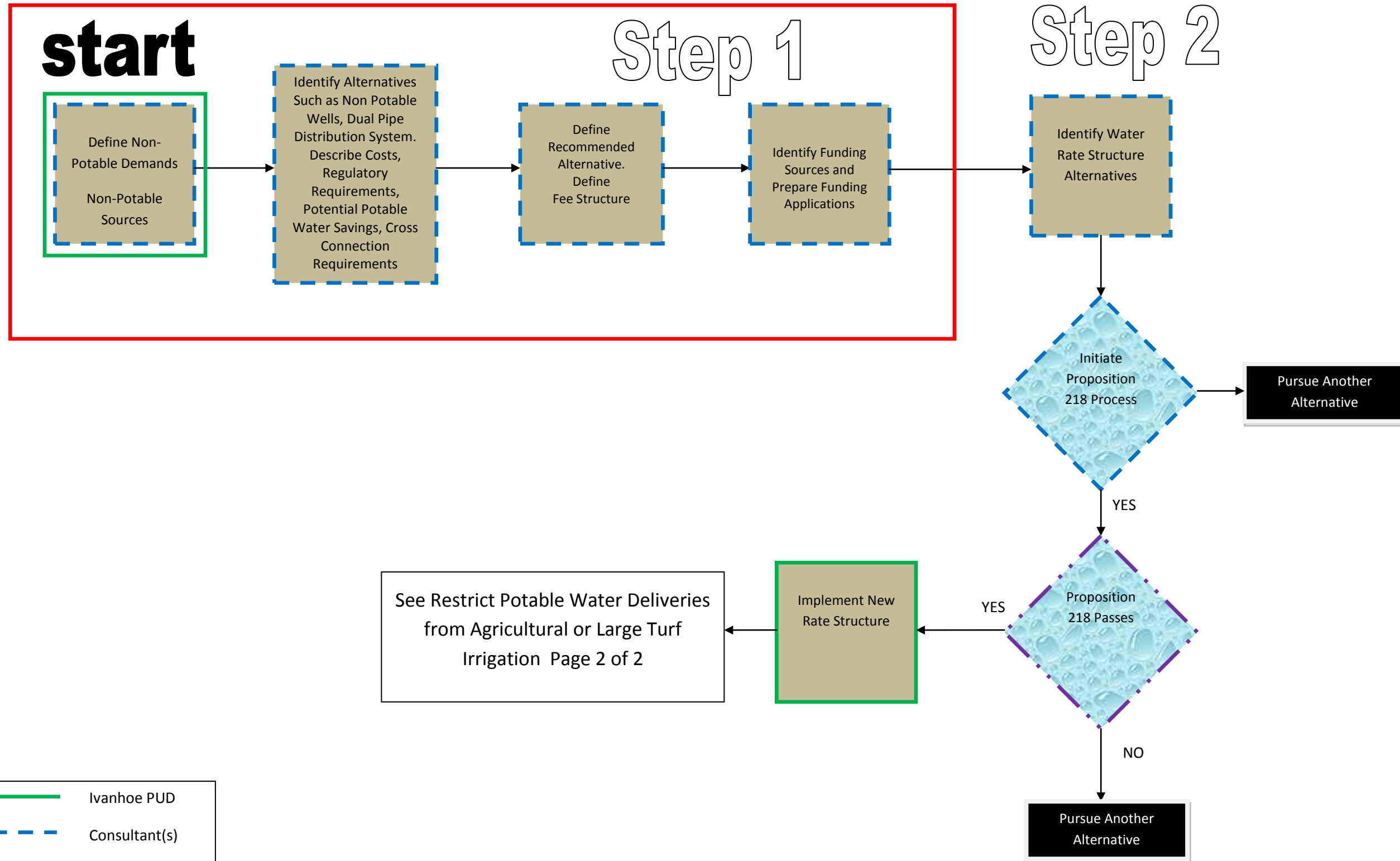


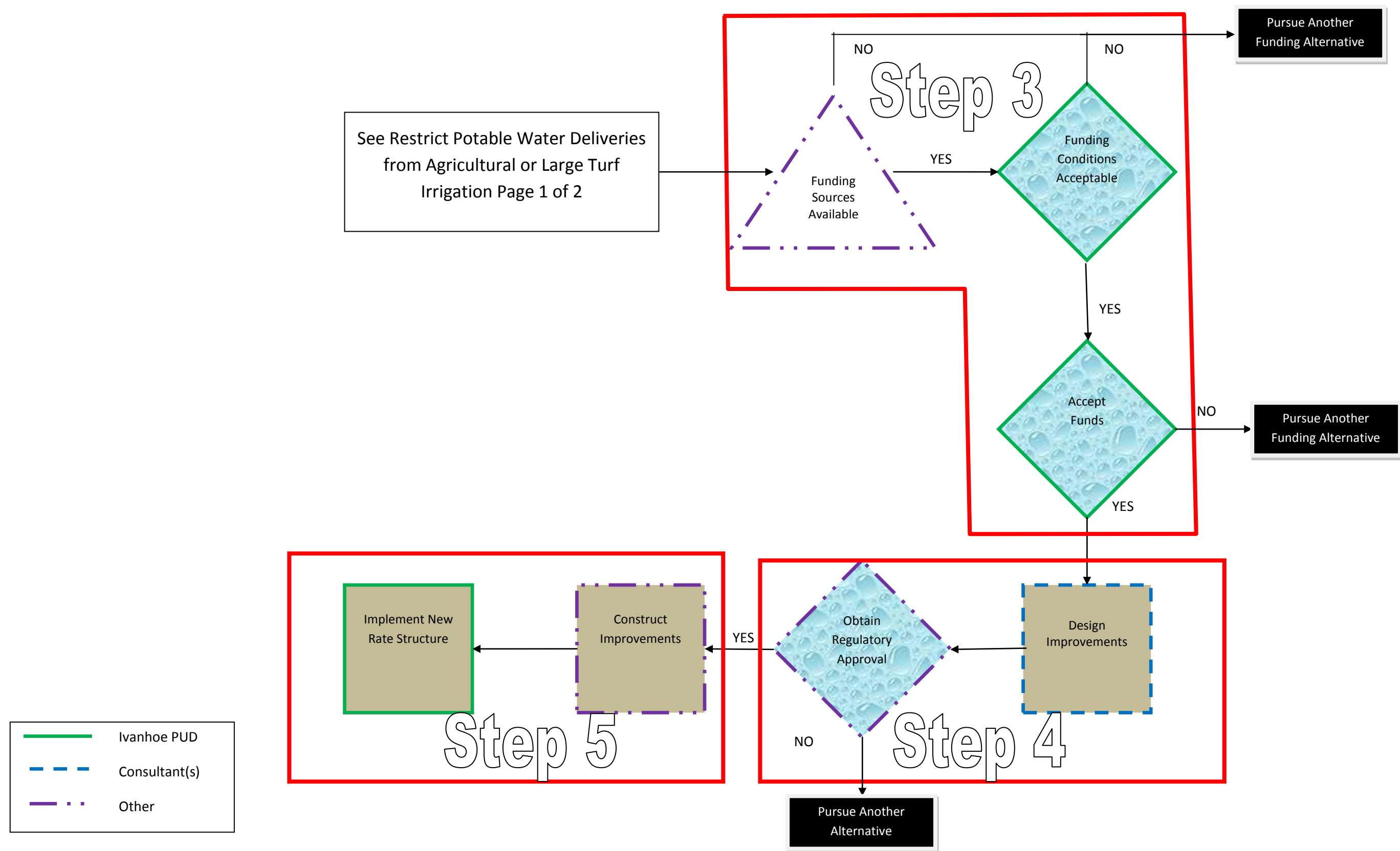
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Step Three



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Step Four



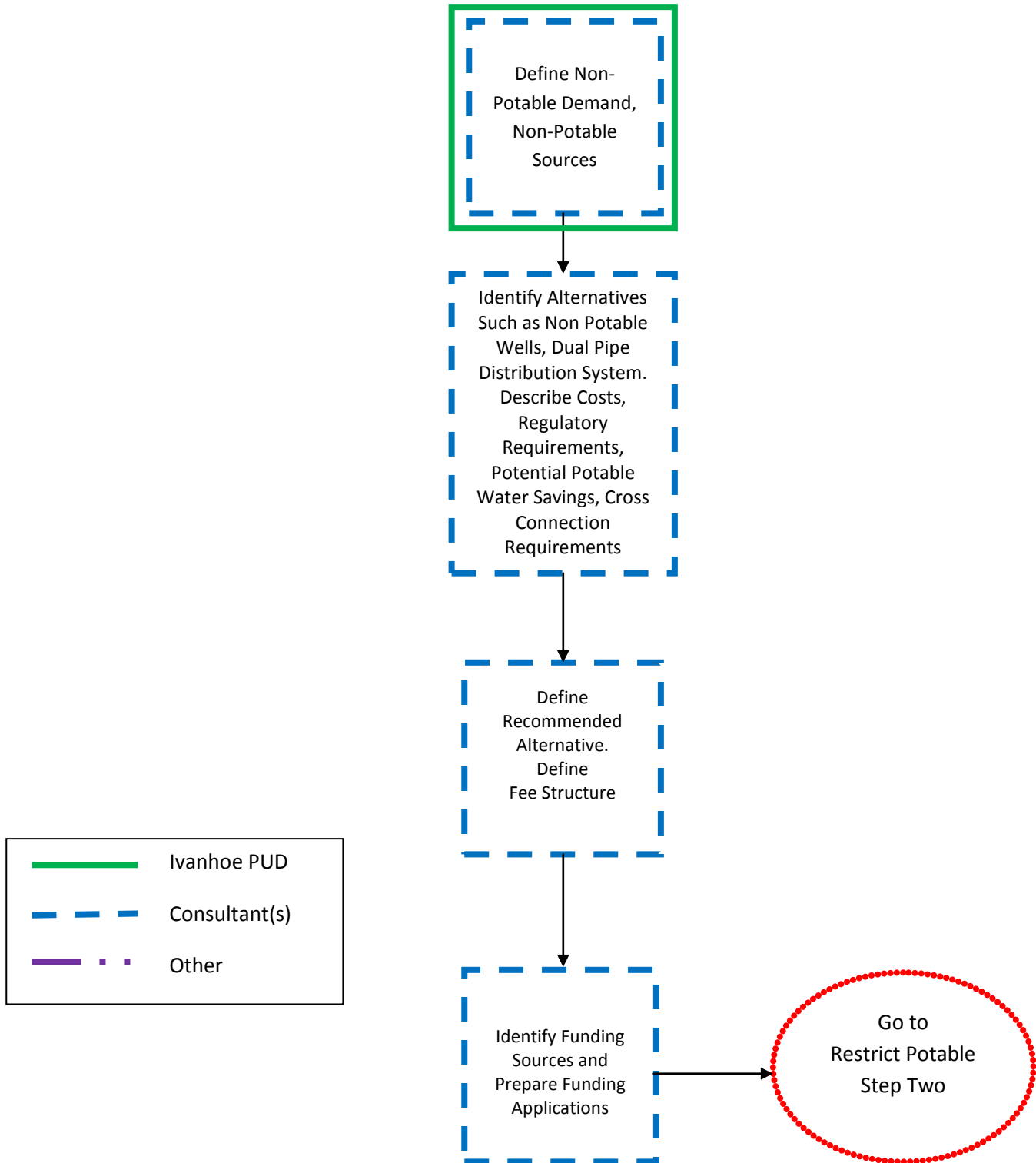




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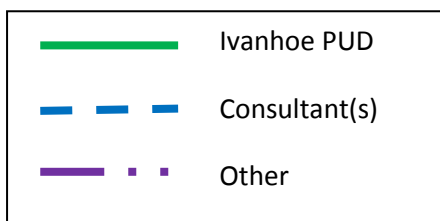
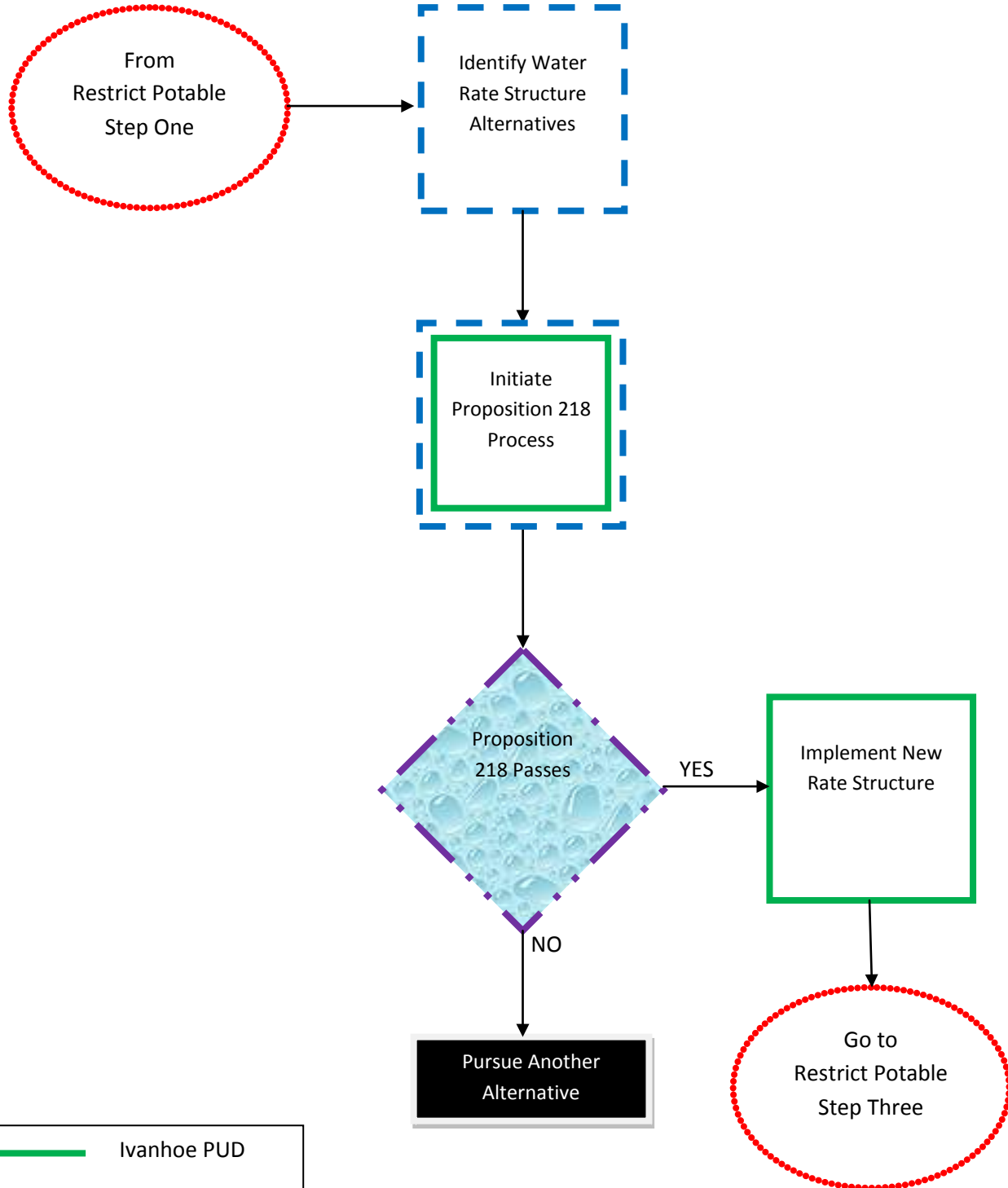
Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step One



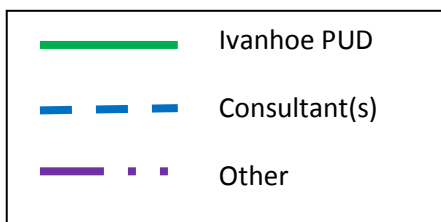
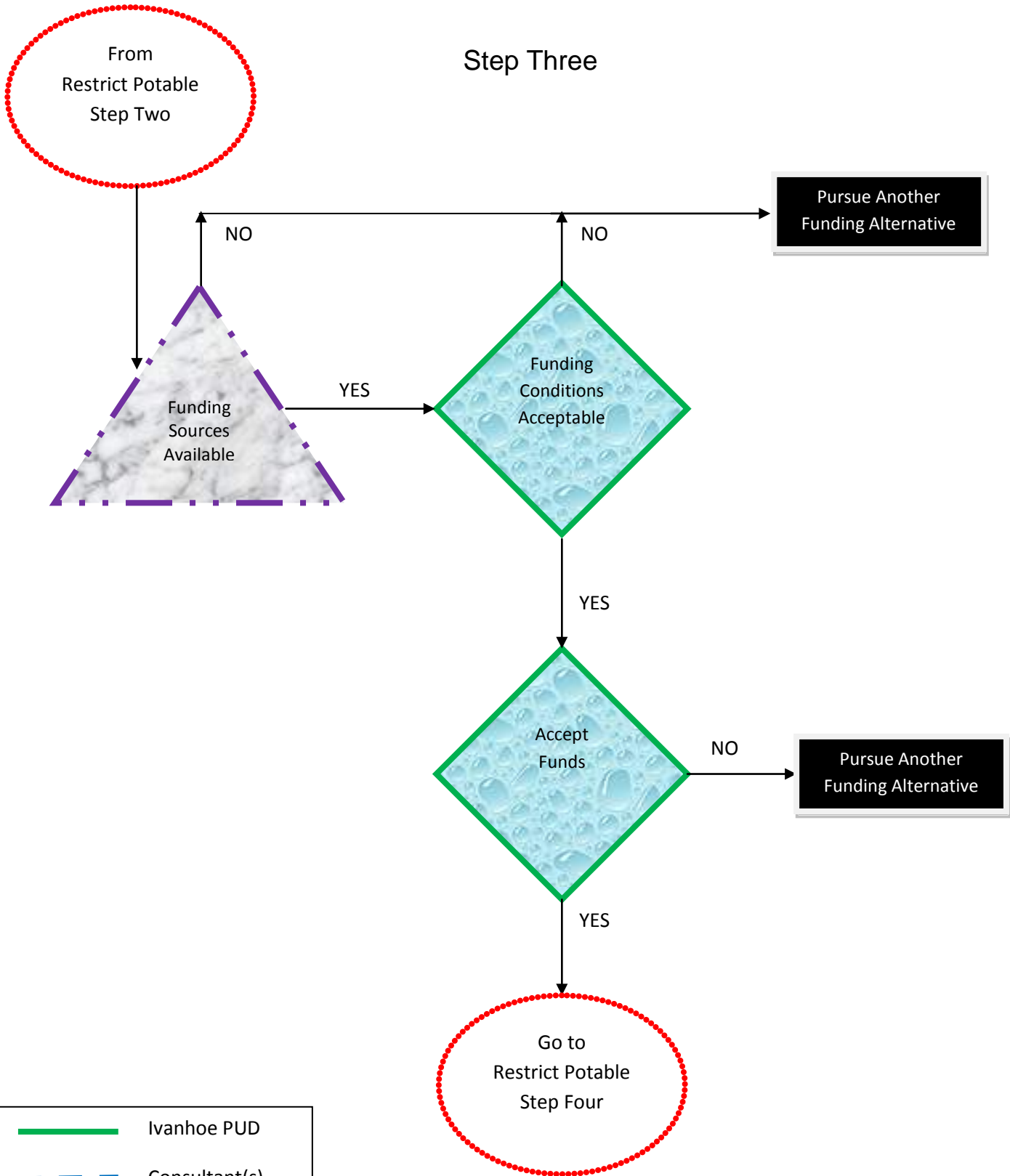
Ivanhoe PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Two



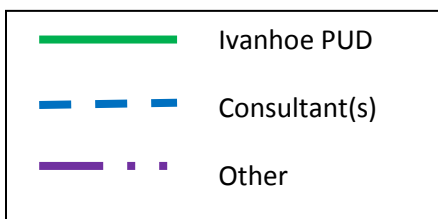
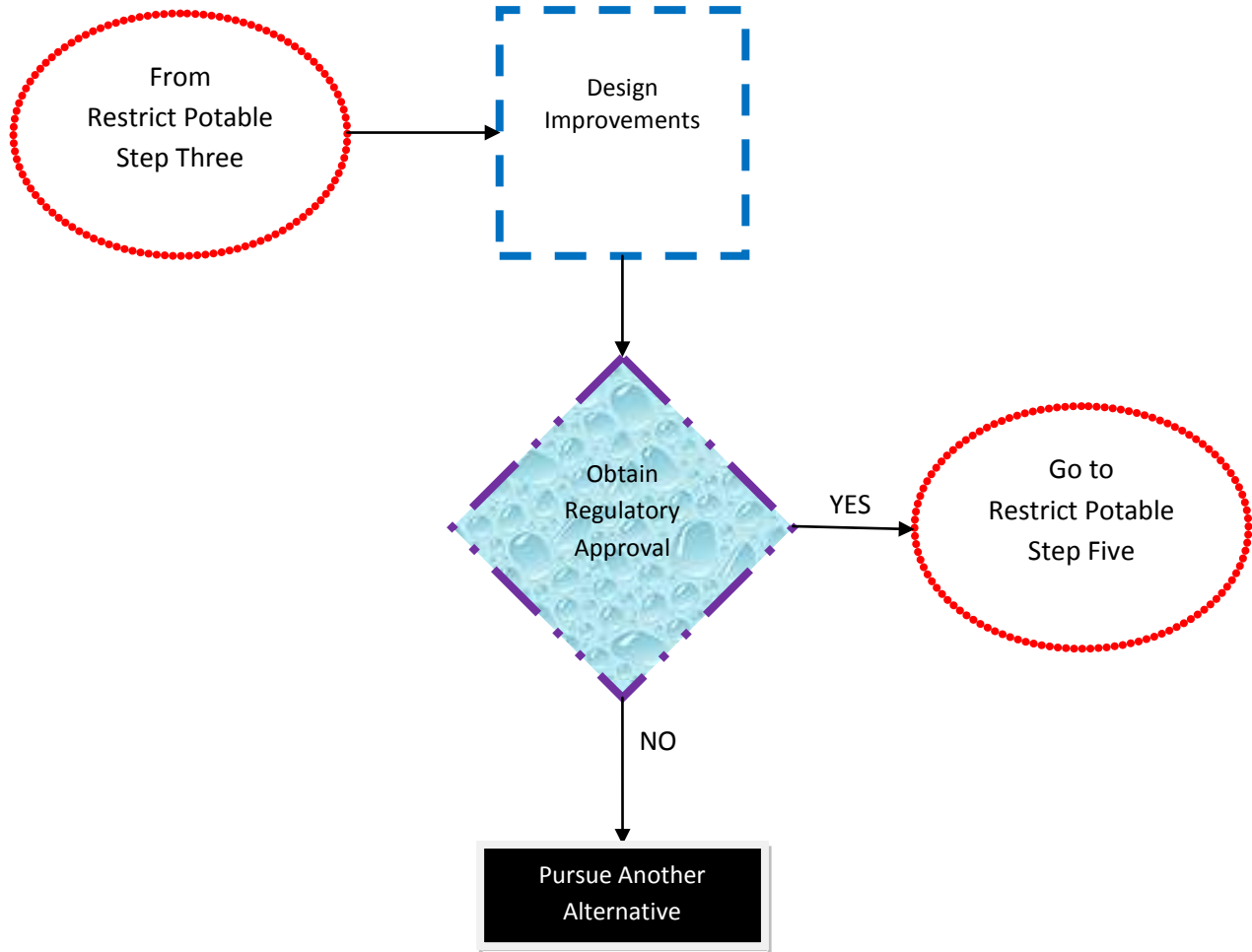
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Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Three

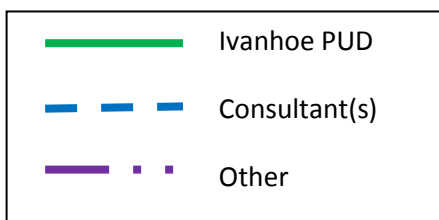
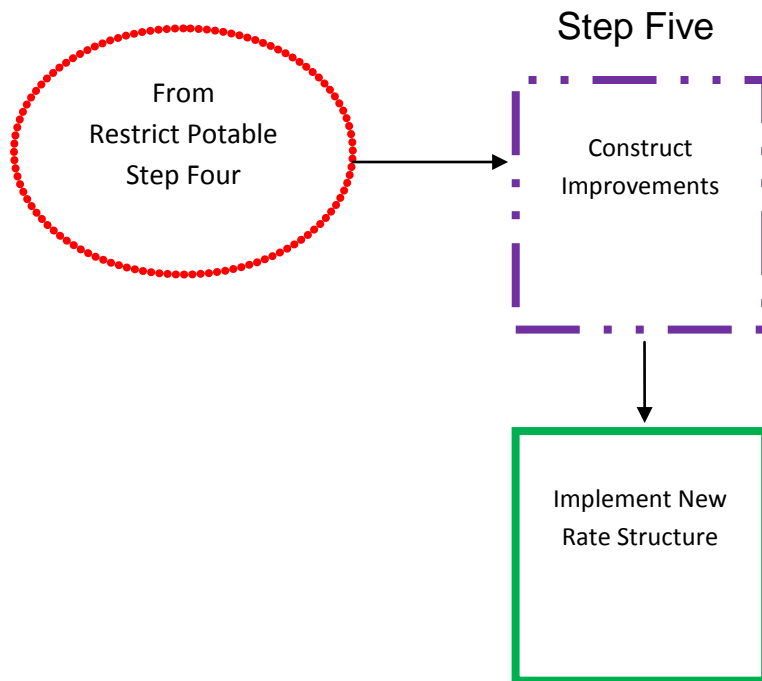


Ivanhoe PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Four



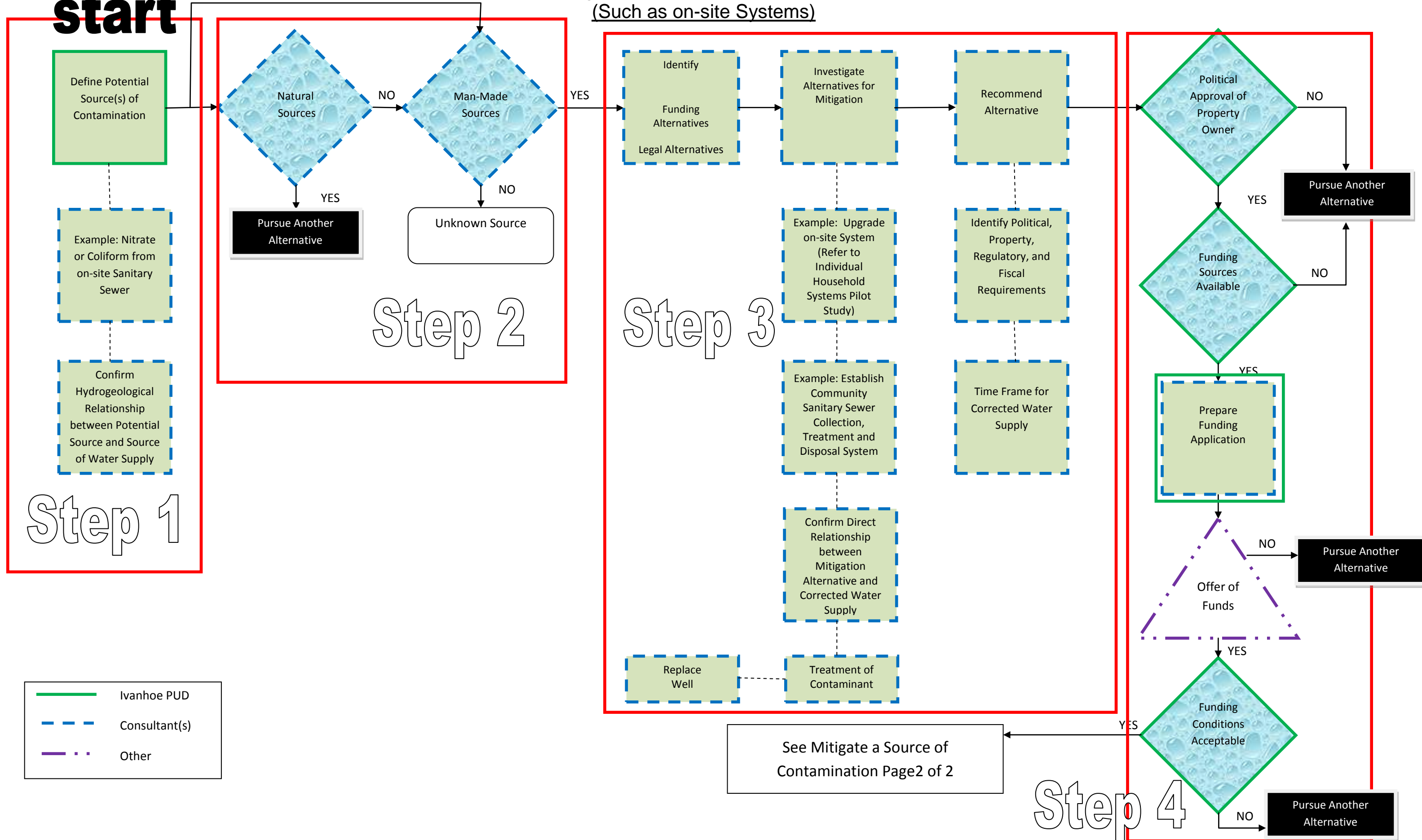
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or Large Turf Irrigation



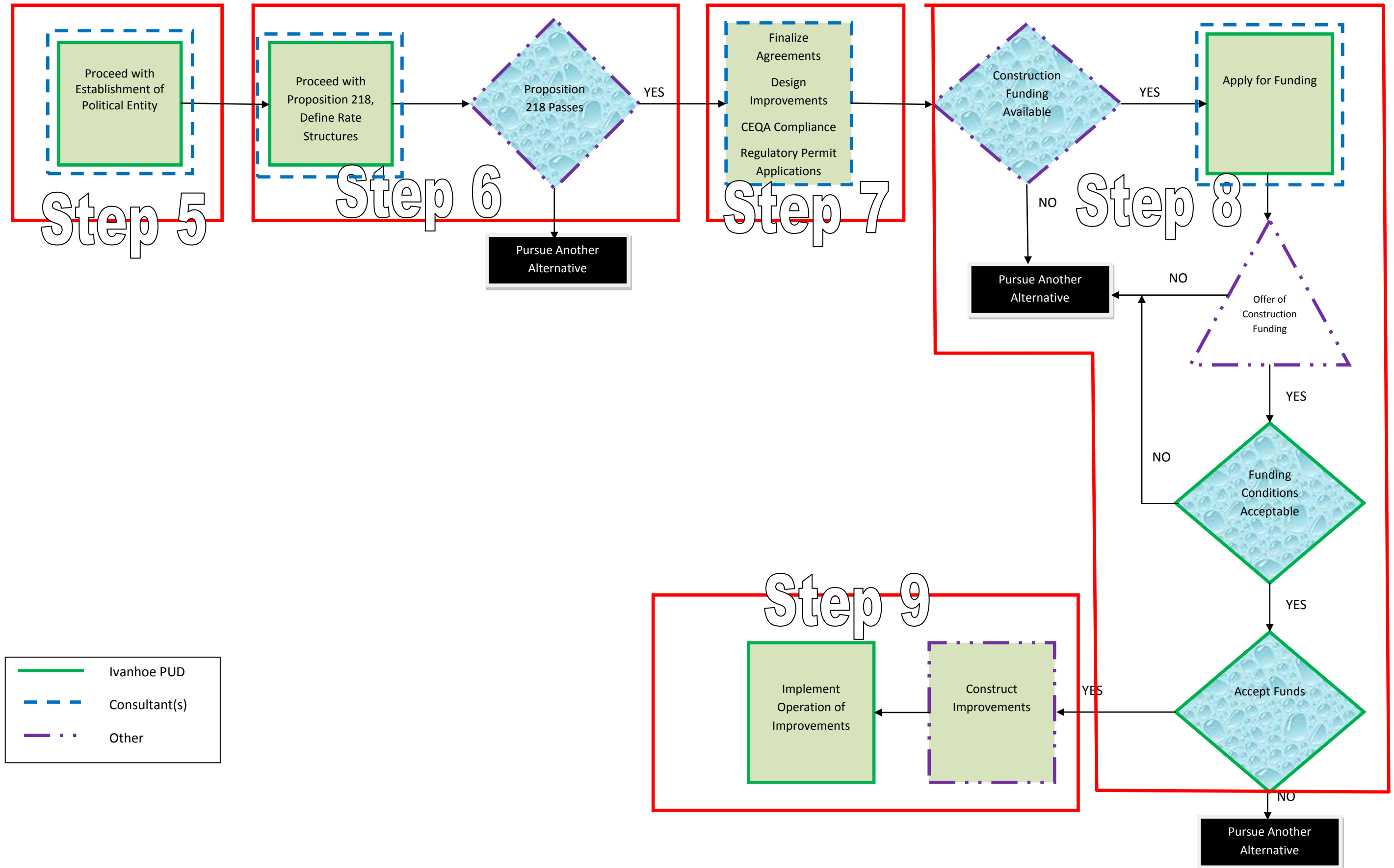
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Mitigate a Source of Contamination
(Such as on-site Systems)

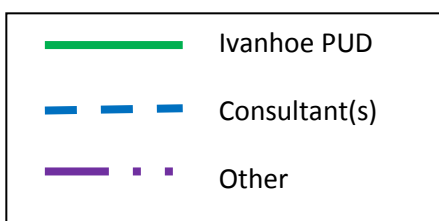
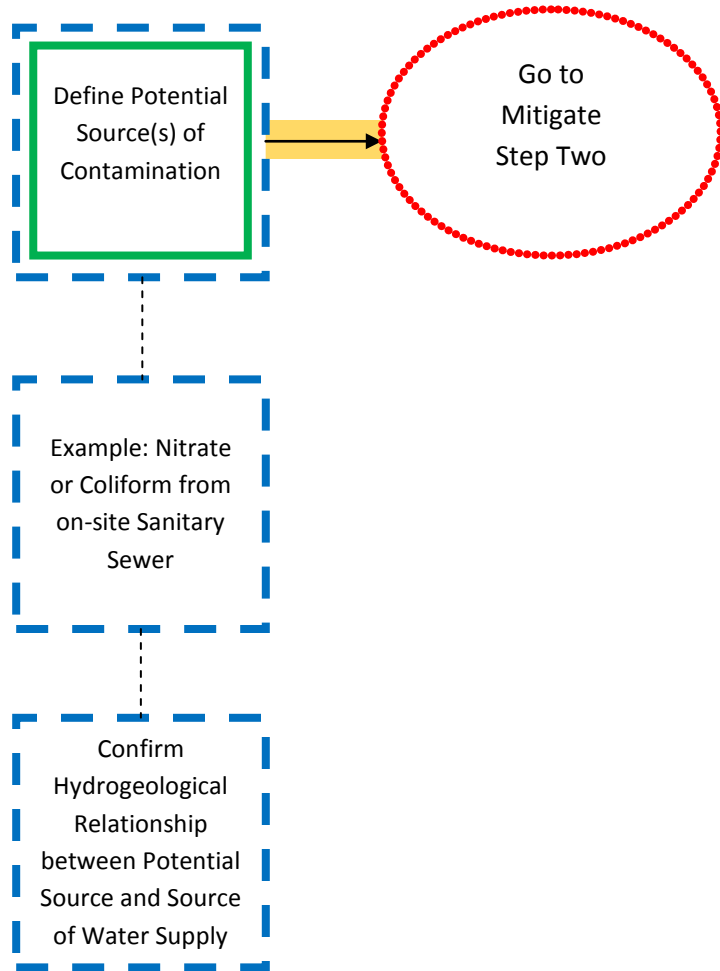
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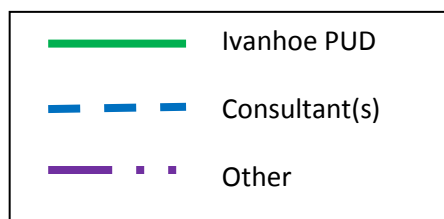
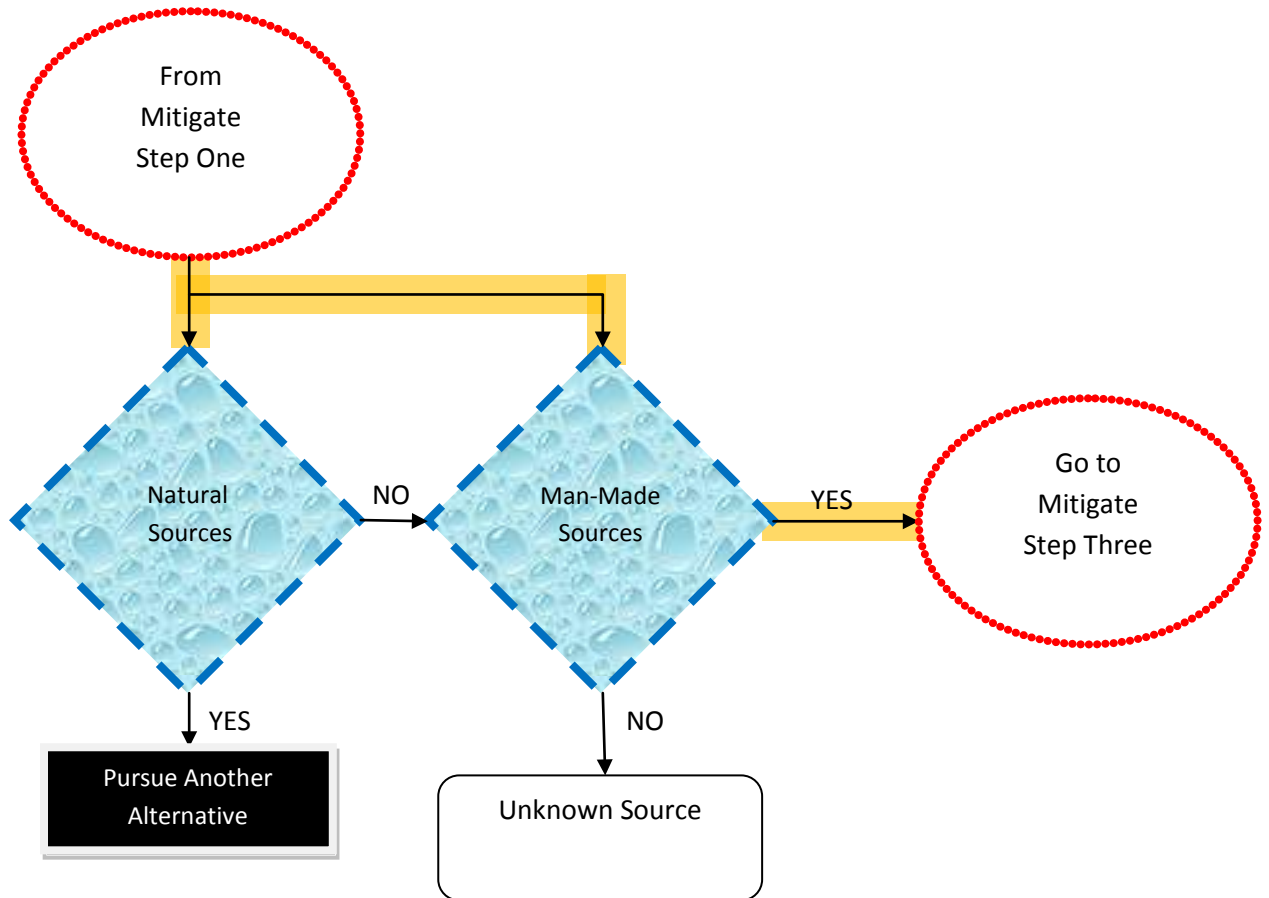
Mitigate a Source of Contamination
(Such as on-site Systems)



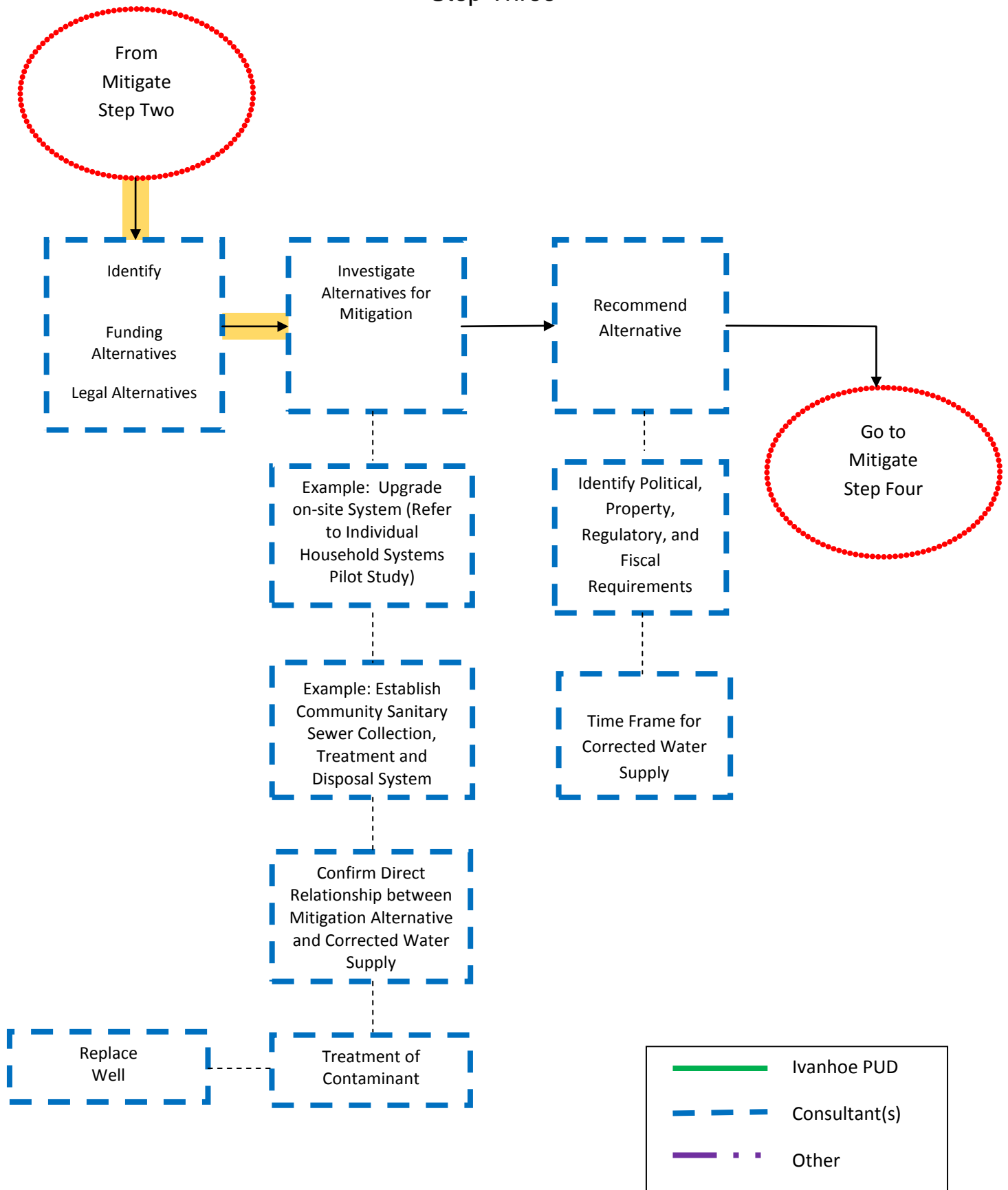
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Mitigate a Source of Contamination
Step One



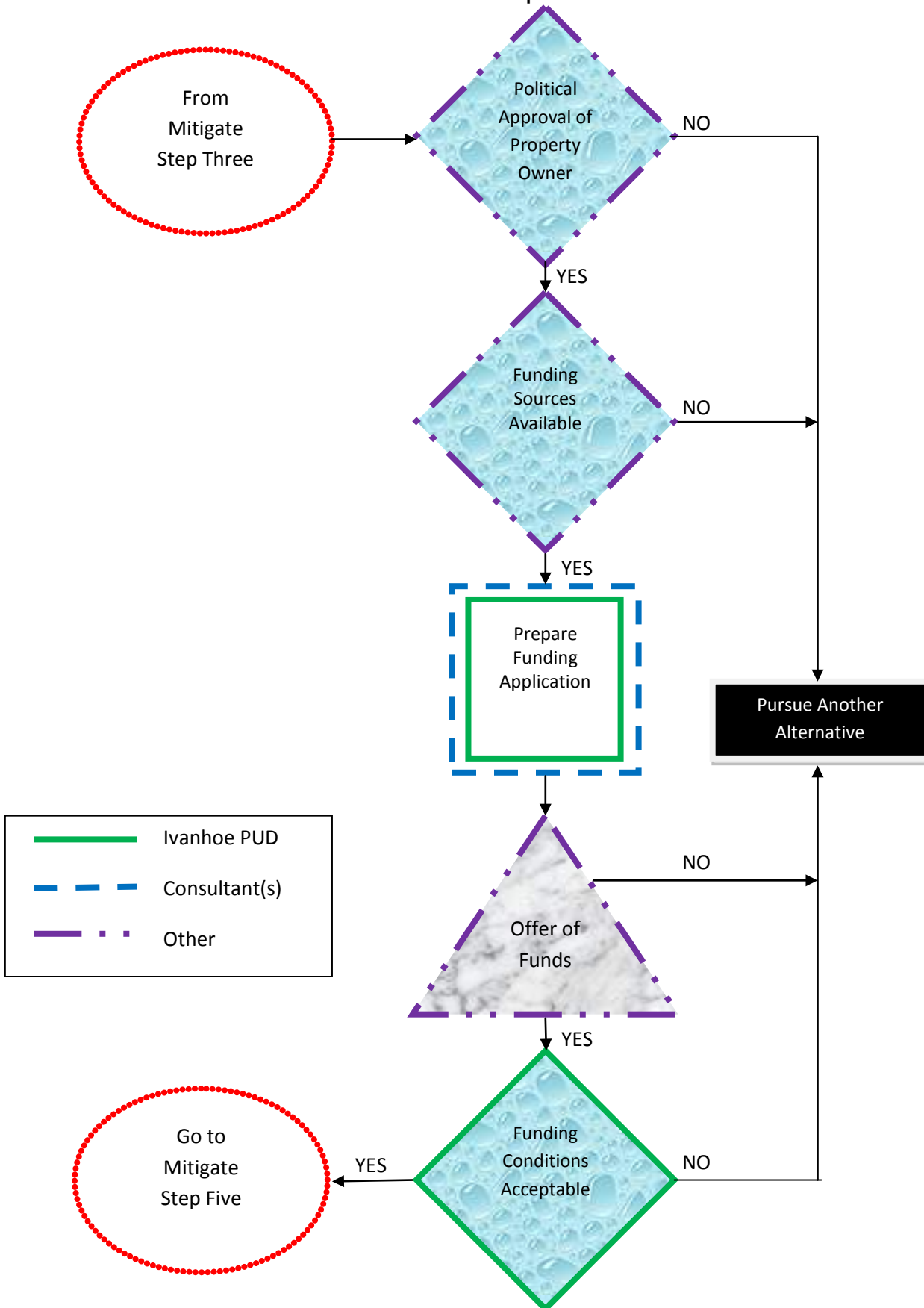
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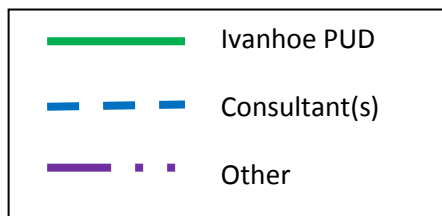
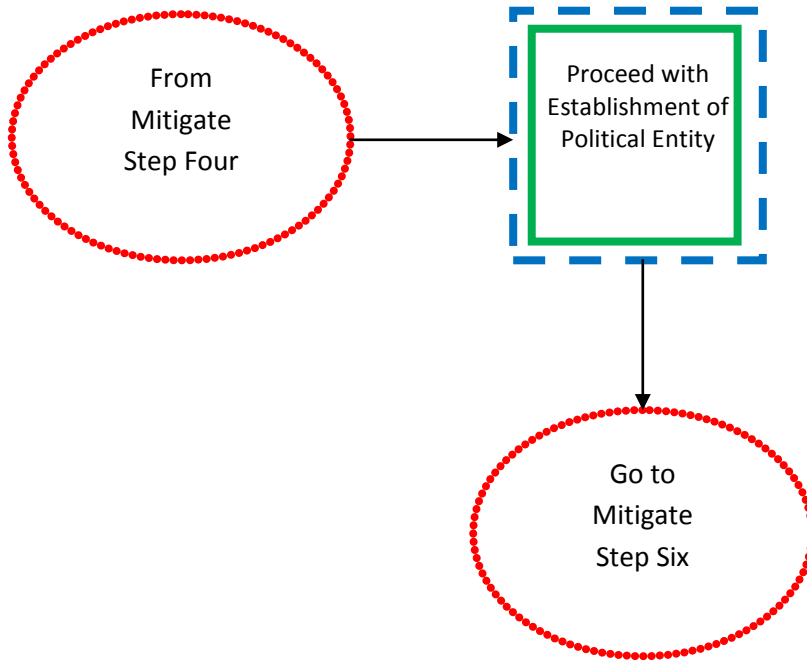
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Step Three



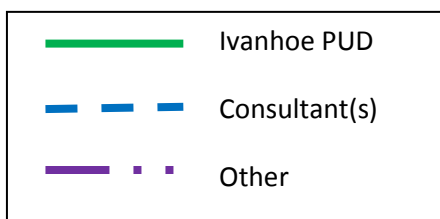
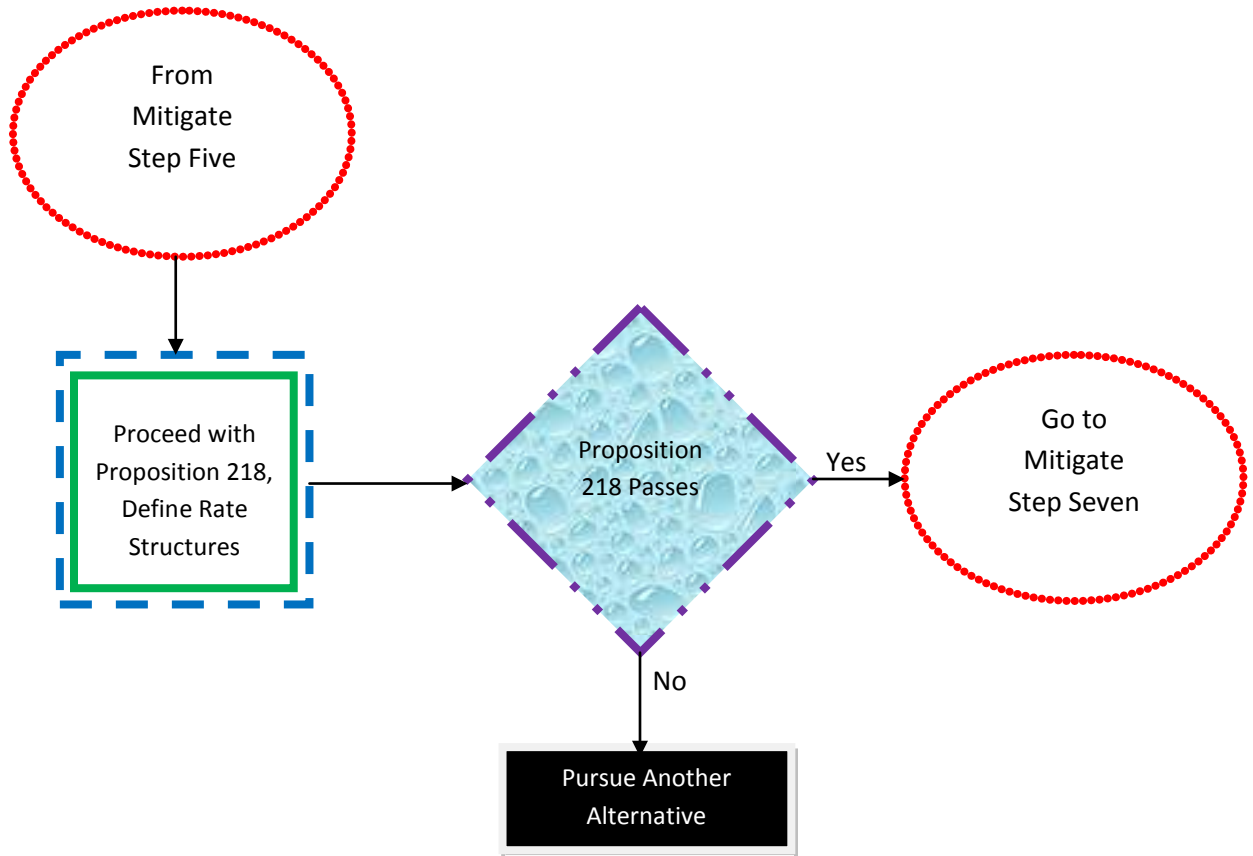
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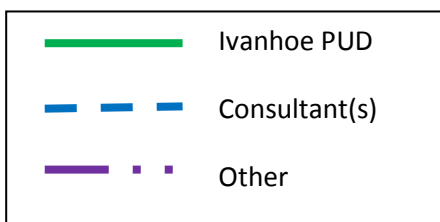
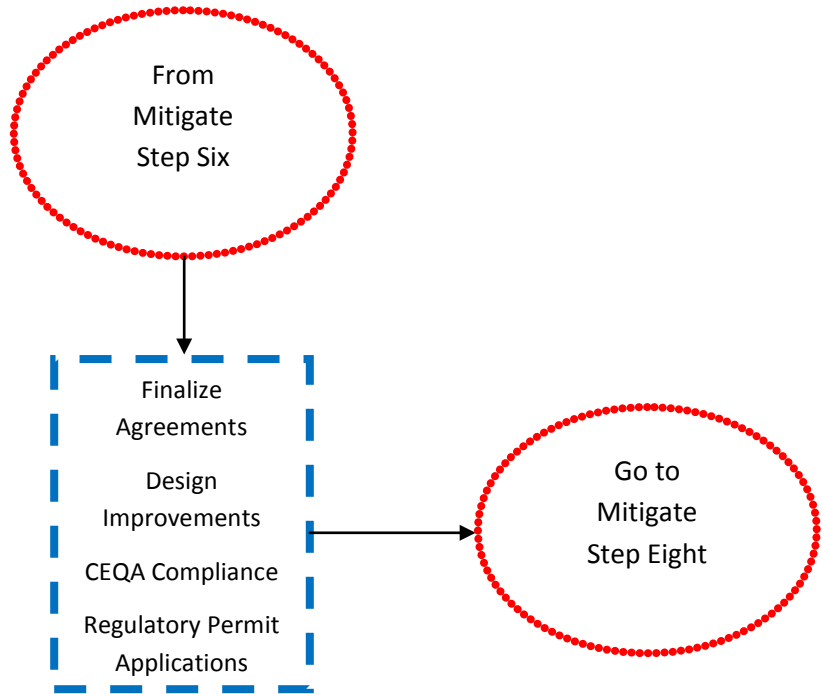
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Step Five



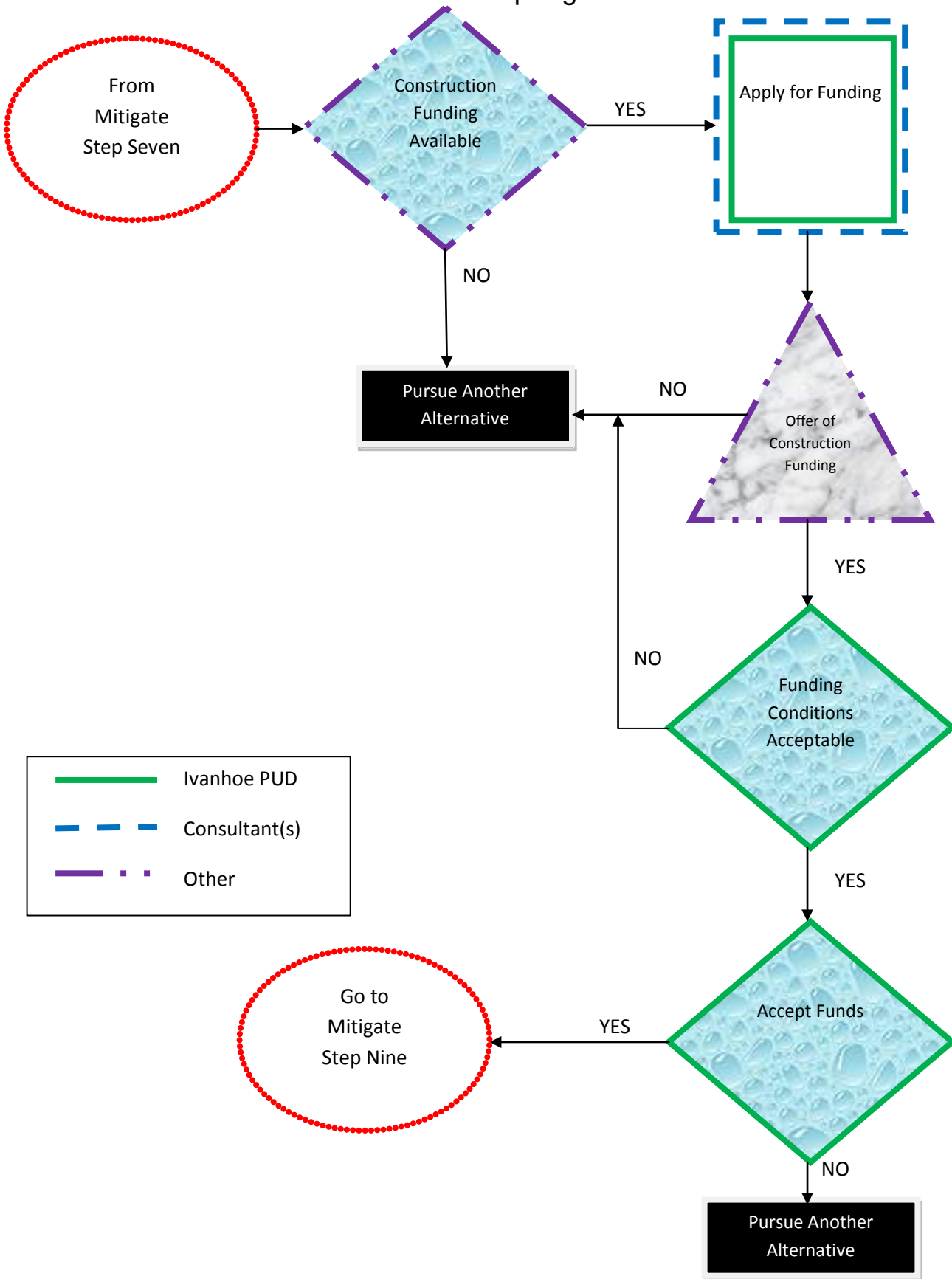
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Mitigate a Source of Contamination
Step Six



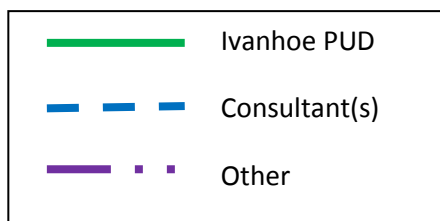
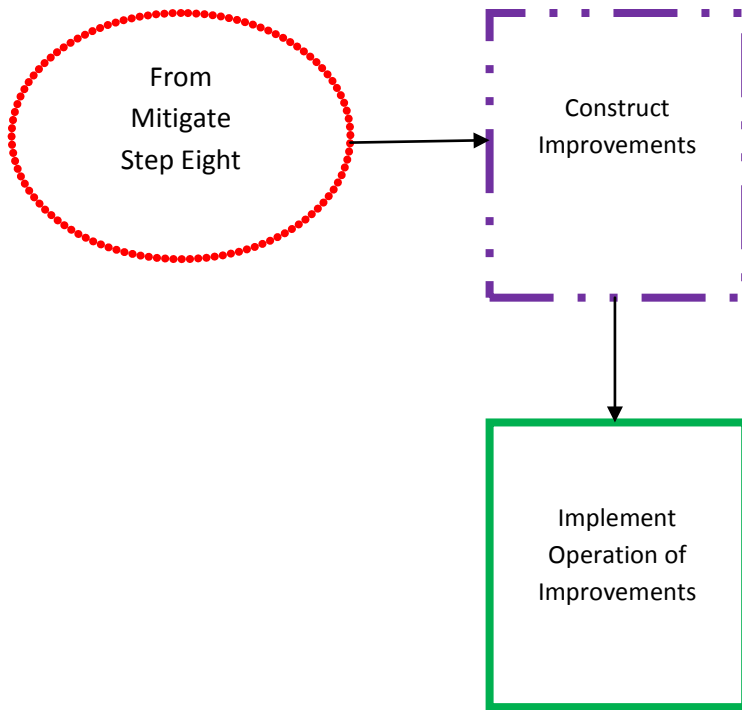
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Mitigate a Source of Contamination
Step Seven



Ivanhoe PUD
Mitigate a Source of Contamination
Step Eight



Ivanhoe PUD
Mitigate a Source of Contamination
Step Nine



Appendix K

Stratford PUD Community Review

Stratford PUD Community Review

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8 COMMUNITY PILOT PROJECTS

Evaluation of Potential Community Pilot Projects

The goal of the community review process was to further evaluate and perform a specific pilot study review of several communities that face water supply challenges in order to ground truth the potential solutions identified and to help develop a roadmap to implement applicable alternative solutions. The roadmap that is developed with the assistance of the community review process will be useful to guide other communities considering the same types of solutions.

For each pilot study, a Pilot Project Stakeholder Advisory Group (PSAG) was formed to provide review of the pilot study, and advise on potential communities to provide outreach efforts as part of a community review process. Members of the PSAG for the New Source pilot study included representatives from CDPH, DWR, Central Valley RWQCB, Tulare County, Fresno County, Kings County, Kern County, Tulare County LAFCo, USDA, Rural Community Assistance Corporation (RCAC), California Rural Legal Assistance Foundation (CRLAF), United Way, as well as various water districts and community representatives.

The community review process involved conducting community review meetings to ground truth findings, to learn about what the residents in the community review focus area need and want, and to assess their thoughts regarding the proposed alternatives presented within the draft pilot study. Participants in the community review process included board members, owners, operators, and residents of communities specifically selected as having potential to implement a New Source type alternative.

SECTION EIGHT**PILOT STUDY****8.3 Stratford Community Pilot Project****8.3.1 Description of Stratford Public Utility District**

The town of Stratford is located in Kings County, approximately 4.5 miles south of Lemoore California. As a rural area with a population of 1,277 (Census 2010), the community is surrounded by open space and agriculture land. The Stratford Public Utility District (SPUD) provides community services (Water, Sewer, Refuse Collection, and streetlights) to the residents of Stratford.

SPUD has only one staff person.

Water System Description

The Stratford Public Utility District operates a water distribution system. The existing infrastructure of the water distribution system consists of approximately 300 metered service connections, 4 inch and 6 inch diameter asbestos cement piping, and approximately 65 existing fire hydrants. There are currently three (3) existing wells in Stratford (Well No.s 5, 6, and 7). Well No.5 produces approximately 500 gallons per minute (gpm), Well No. 6 is not operational, and Well No. 7 produces approximately 500 gpm. Currently, the SPUD maintains a water storage tank that has a storage capacity of approximately 30,000 gallons.

Existing Facilities

Currently all water produced from wells is chlorinated at the well head prior to entry into the distribution system. The existing infrastructure of the water distribution system consists of approximately 300 metered service connections, 4 inch and 6 inch diameter asbestos cement piping, and approximately 65 existing fire hydrants. The existing water distribution system is currently operating under the State Department of Health Services Water Permit No. 1610006. Water quality is further analyzed in 2005 Annual Drinking Water Quality Report dated July 1, 2006. The SPUD continues to monitor water quality of existing water supply in accordance with applicable State and Federal regulations. The results are reported to the residents in the Annual Consumer Confidence Report as required by law.

Future Facilities

SPUD has identified the need to install adequate storage facilities to meet the Maximum Day Demand of the system as required by the California Water Works Standards. SPUD has also identified the need to install emergency generators to maintain system pressure during prolonged power outages. **Water Quality**

New Federal Arsenic Minimum Containment Level (MCL) of 0.010 milligrams per liter were established by the United States Environmental Protection Agency (EPA) went

SECTION EIGHT**PILOT STUDY**

into effect January 2006. The State of California is in the process of developing and adopting new standards for levels of arsenic containments in drinking water. The EPA has the enforcement authority for new Federal Arsenic MCL until California regulations are adopted. The Stratford PUD has detected intermittent traces of methane and manganese in the groundwater pumped from one of the PUD's well site. In addition, the District has been addressing secondary water quality issues which includes; water color, odor, and iron.

Water Storage

Currently, the SPUD maintains a water storage tank that has a storage capacity of approximately 30,000 gallons.

Wastewater System Description

The Stratford Public Utility District operates a Sewer Collection System and Wastewater Treatment Facility. The existing Collection System includes a network of sewer mains, sewer laterals, and associated facilities that collect wastewater from residents and businesses in the town. The collection system brings the wastewater to an existing treatment plant. Currently the system has approximately 300 sewer residential and commercial laterals which collect and ultimately convey an average of 88,500 gallons of wastewater to the treatment plant per day. The wastewater is pumped into aeration ponds located on the treatment plant property.

Wastewater Treatment Plant and Disposal

The existing wastewater treatment was constructed in 1959 and includes a treatment and discharge facility. This facility was abandoned in 1988 due to the poor condition of the facility and high operation and maintenance cost. Currently, SPUD utilizes facultative ponds for treatment, disposal is through evaporation and percolation. The California Regional Water Quality Control Board Central Valley Region Order No. 82-068, identifies the plant capacity to be 150,000 gal/day.

Financial

The Fiscal Year 2012/2013 budget (water only) is \$144,100. The Fiscal Year 2012/2013 year to date expenditures (water only) were \$178,442. The 2010 median household income was \$26,000.

The water rate is metered with a base rate of \$13.00 per month regardless of meter size, includes 4,000 gallons and \$1.20 per 1,000 gallons over the 4,000 gallons. The average monthly water bill is approximately \$36.40.

The connection fees for service are \$4,000 for water service and \$6,000 for sanitary sewer service.

Previous Funding Applications

SECTION EIGHT**PILOT STUDY**

Stratford PUD has submitted five pre-applications to the State Drinking Water State Revolving Fund for

1. Above Ground Storage Tanks August 2008, \$200,000
2. Odor Mitigation and Water Storage Project February 2009, \$750,000
3. Well 7 Methane Reduction September 2009, \$1,400,000
4. System Pressure and Source Capacity Enhancement, September 2009, \$1,700,000
5. Source Capacity Mitigation Project July 2013, \$4,412,000

8.3.2 Challenges Faced by Stratford Public Utility District

The challenges faced by the Stratford Public Utility District include:

- Disadvantaged Community
- Insufficient water supply to meet maximum day demands with the largest well out of service
- Aged and Undersized water distribution mains
- Perched water and corrosive soils
- Minimal water storage
- No cash reserves
- Not able to join an IRWM

8.3.3 Goals of the Stratford Community Pilot Project

The goals of the Stratford Community Pilot Project included:

- Provide information to the community participants about the goals and objectives of the Tulare Lake Basin DAC study and the New Sources Pilot Study.
- Develop an understanding of the local water and wastewater challenges faced by the community.
- Provide preliminary alternative solutions identified in the New Sources pilot study.
- Obtain feedback on the preliminary alternative solutions identified.
- Provide recommendations to the community for future actions to consider.
- Develop Decision Trees that represent past and potential actions for Stratford PUD to consider.

SECTION EIGHT**PILOT STUDY****8.3.4 Description of the Stratford Community Pilot Project****Authorization to Include Stratford PUD in the DAC Study**

Michael Taylor of Provost & Pritchard attended a regularly scheduled Board Meeting of the Stratford Public Utility District on November 13, 2013. Mr. Taylor briefly described the Disadvantaged Community Study that was being conducted and requested the Stratford Public Utility District authorize its inclusion in the Study through the Community Pilot Project process. The Board of Directors of the Stratford Public Utility District authorized the participation.

Pilot Project Activities Summary

1. Obtain and review records
2. Meet with District and operations staff
3. Discussions with CDPH – regulatory and funding
4. Review potential of physical consolidation with Cal Water (City of Visalia)
5. Review past funding applications
6. Prepare draft Decision Trees
7. Conduct a Community Review Meeting
8. Summarize activities
9. Provide recommendations for District consideration

Community Review Meeting

A community meeting was held on February 25, 2014 at the Stratford Public Utility District office (minutes of the meeting are included as **Appendix K**). The meeting was attended by two Stratford PUD Board Members, residents of the Stratford community, Self Help Enterprises, Community Water Center, and Provost & Pritchard. The meeting was organized and facilitated by Maria Herrera of The Community Water Center. Michael Taylor of Provost & Pritchard Consulting Group provided information on the overall Tulare Lake Basin Disadvantaged Community Study, a general description of Decision Trees, and the alternatives that may be viable for Stratford to consider to address its water supply challenges. All attendees were encouraged to ask questions and provide any additional information for the study. The discussion was translated to Spanish during the meeting.

1. Stratford PUD Community Review Process
 - a. Goals of the Stratford Community Review
 - i. Stratford would like a reliable drinking water source.
 - b. Selection of Stratford PUD for Community Review
 - i. Stratford is truly an isolated water system that cannot look to others for help. They must find a solution to provide a viable drinking water system that will not cause health issues for the residents.
 - c. Results of Stratford PUD Community Review

SECTION EIGHT**PILOT STUDY**

- i. Stratford appears to be open to discussion regarding how to upgrade their current water system. As well as the issues with the wells, the distribution system is also older than 50 years old and is in need of upgrades.
- d. Potential Water System New Sources
 - i. Stratford cannot consolidate with another water system since there are no systems within a reasonable and economically feasible distance. Well 6 needs to be fixed and redeveloped if possible. Well 7 needs a tank to aerate the methane from the water, so it is safe to drink.
- e. Recommended Future Action
 - i. Determine whether Well 6 can be fixed or if it needs to be listed as Non-Active with CDPH. Resubmit the most recent, July 2013, State Drinking Water State Revolving Fund pre-application to show insufficient water supply during maximum day and peak hour. Currently, the system is placed within the SRF Category M. This means the water system does not meet the Water Works Standard or does not meet the TMF criteria but does have a project that could be listed in any of the above categories.

Each of the nine (9) generic water supply alternatives were described and discussed regarding the potential relevance to the community of Stratford.

Physical Consolidation

Stratford is truly an isolated water system that cannot look to others for help. They must find a solution to provide a viable drinking water system that will not cause health issues for the residents.

Exchanges/Contracting for Surface Water

The Stratford Public Utility District does not presently own surface water rights. Although the Stratford Irrigation District is near the Stratford Public Utility District, the requirements of purchasing surface water, contracting for conveyance to the District, constructing a surface water treatment plant, and operation of a surface water treatment plant are extensive and do not warrant further consideration at this time.

Recharge of Local Area

The Stratford Public Utility District lies adjacent to the South Fork of the Kings River. Recharge of the local area is not a need for the District. In fact, some of the challenges faced by the District are due to the perched water conditions of the area.

Regional Facility

SECTION EIGHT**PILOT STUDY**

Stratford is truly an isolated water system that cannot look to others for help. They must find a solution to provide a viable drinking water system that will not cause health issues for the residents.

New Water Supply Well

Due to the insufficient water supply, it is determined that the Stratford PUD requires an additional water supply well. The Stratford PUD recently applied for financial assistance to address the deficiency of source water in July 2013.

A site for the proposed well and water storage tank has not been defined.

Water Treatment Facility

The Stratford Public Utility District does not require a water treatment plant to address primary constituents, however, the District does require a water storage tank that would allow for venting of the methane that is a constituent of Well No. 7.

Conservation

Stratford PUD presently utilizes water meters. The Stratford PUD is presently reviewing the establishment of water conservation policies and/or public education associated with water conservation.

SECTION EIGHT**PILOT STUDY****Restrict Potable Water Deliveries from Agricultural or Large Turf Irrigation**

The District may wish to consider coordinating with the school for the construction of a non potable water supply well for irrigation of the school landscaping. If so, the District may consider applying for funding for such a project. It is also possible for the school to apply for funds to construct a well for the purposes of landscape irrigation and fire demands.

All potable water use at the school would require a separate water distribution system from the non potable system.

Mitigate a Source of Contamination

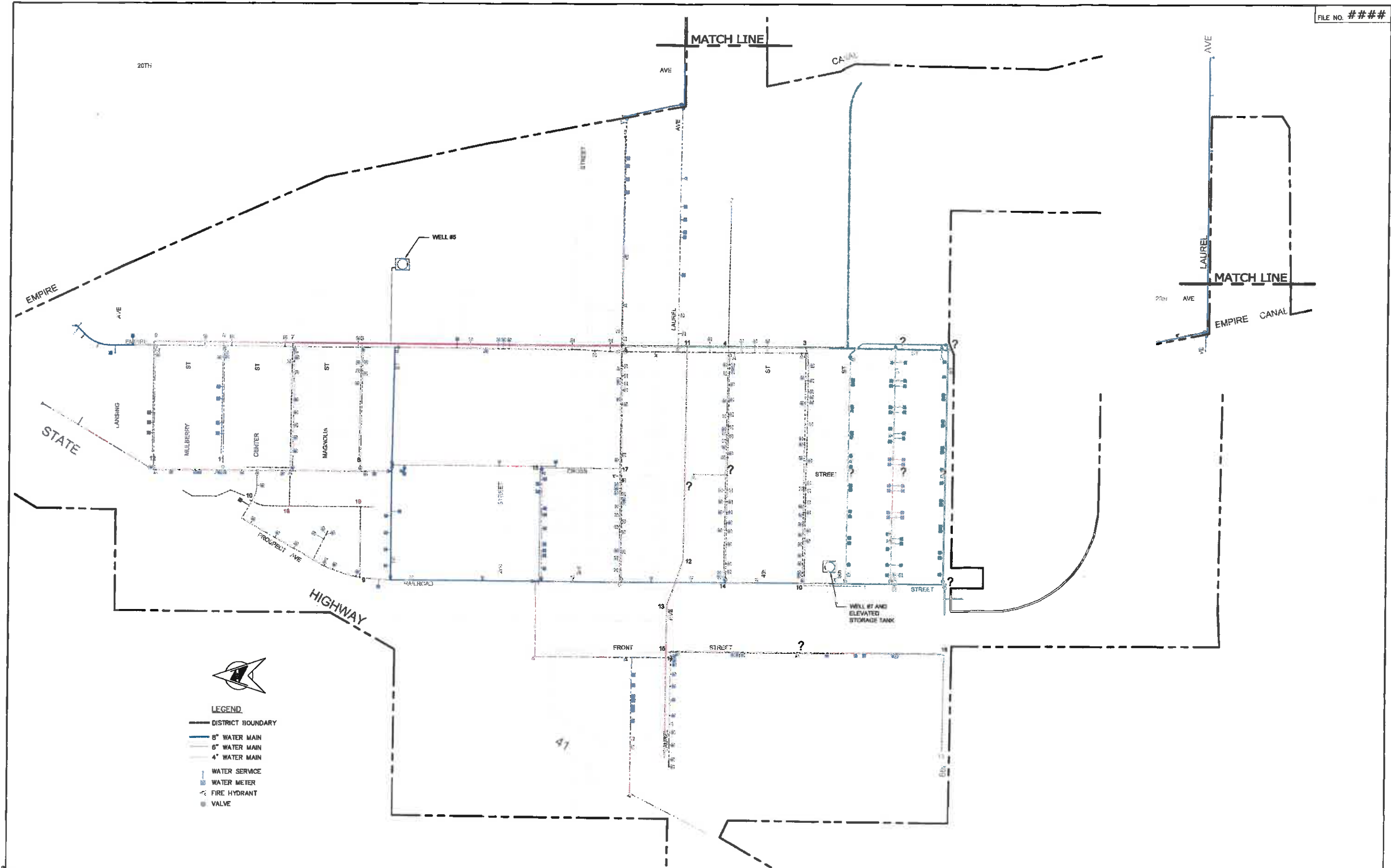
This alternative does not apply to the circumstances of the Stratford PUD.

8.3.5 Recommended Future Actions and Schedule

1. Place Well No. 6 as standby in the Water Supply Permit.
2. Update the Funding Application for a new water supply well with the reinforced consideration that the District does not have a sufficient water supply.
3. Upon receipt of funding assistance, proceed with construction of a water supply well and water storage tank.
4. It is recommended that the District maintain interest in the Kings Basin IRWMP as it may be available as a vehicle to utilize to apply for funding assistance for future water supply improvements. IRWMP's may be a viable mechanism to utilize to receive funding assistance.
5. Investigate the potential of working with the school to construct a new water supply well for the purpose of irrigation of school landscaping.

Financial analysis of any proposed projects would need to evaluate affordability, revenue sources, estimated capital costs, estimated operation and maintenance costs, estimated debt service and proposed rate adjustments, if needed, and their impact on the community.

During the feasibility study and alternatives analysis it is important to provide information to the public through public meetings and presentations. It is important for the community to understand and be involved with any changes to their water and wastewater systems. Due to the large Spanish speaking population in the community, it is important to have materials translated into Spanish and have interpreters available at any public meetings. An informed community may be more likely to become involved in the process and have a constructive voice in determination of any recommended improvements.



- LEGEND**
- DISTRICT BOUNDARY
 - 8" WATER MAIN
 - 6" WATER MAIN
 - 4" WATER MAIN
 - WATER SERVICE
 - WATER METER
 - FIRE HYDRANT
 - VALVE

| REVISION | DATE | DESCRIPTION | APPROVED |
|----------|------|-------------|----------|
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STRATFORD PUBLIC UTILITY DISTRICT

WATER DISTRIBUTION SYSTEM

PLAN SCALE: 1"=200'

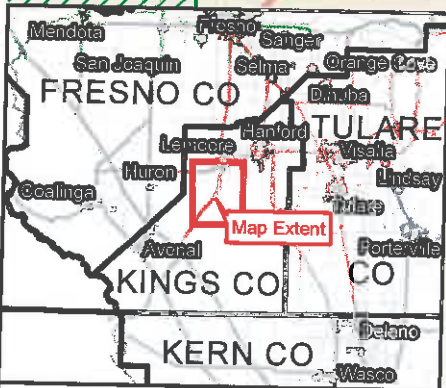
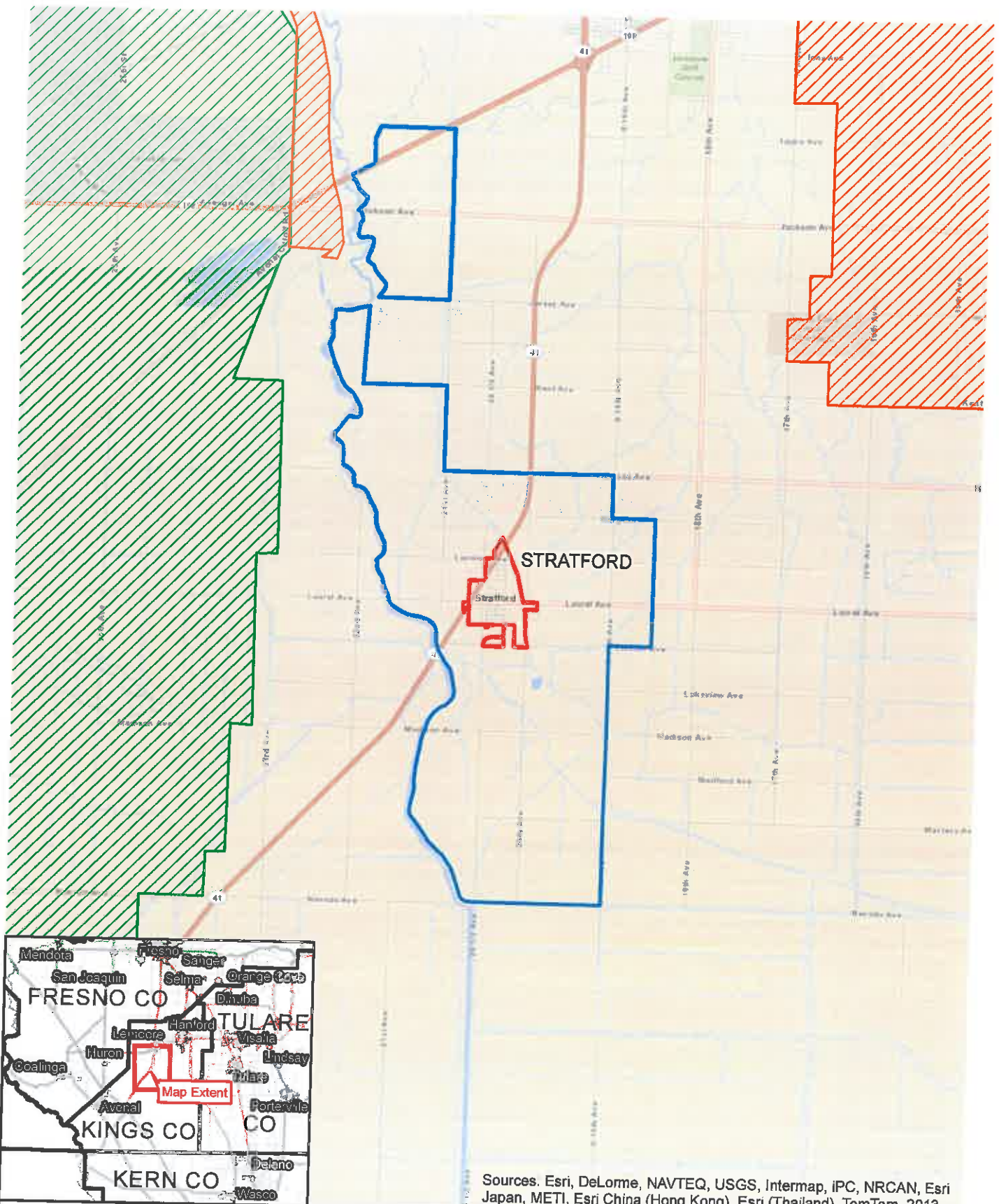
DRAWN BY: R. DAVIDSON

APPROVED BY: X

C.E. NO. X DATE: 9-15-2009

DENNIS R. KELLER
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SHEET #
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Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

0 0.5 1 1.5 2 Miles

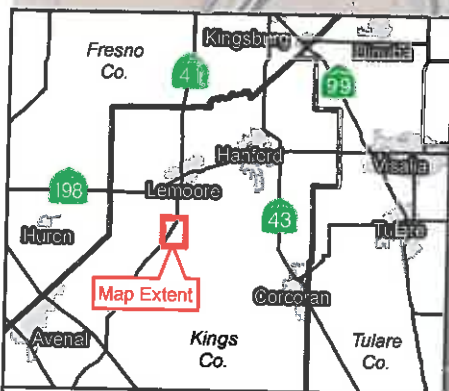
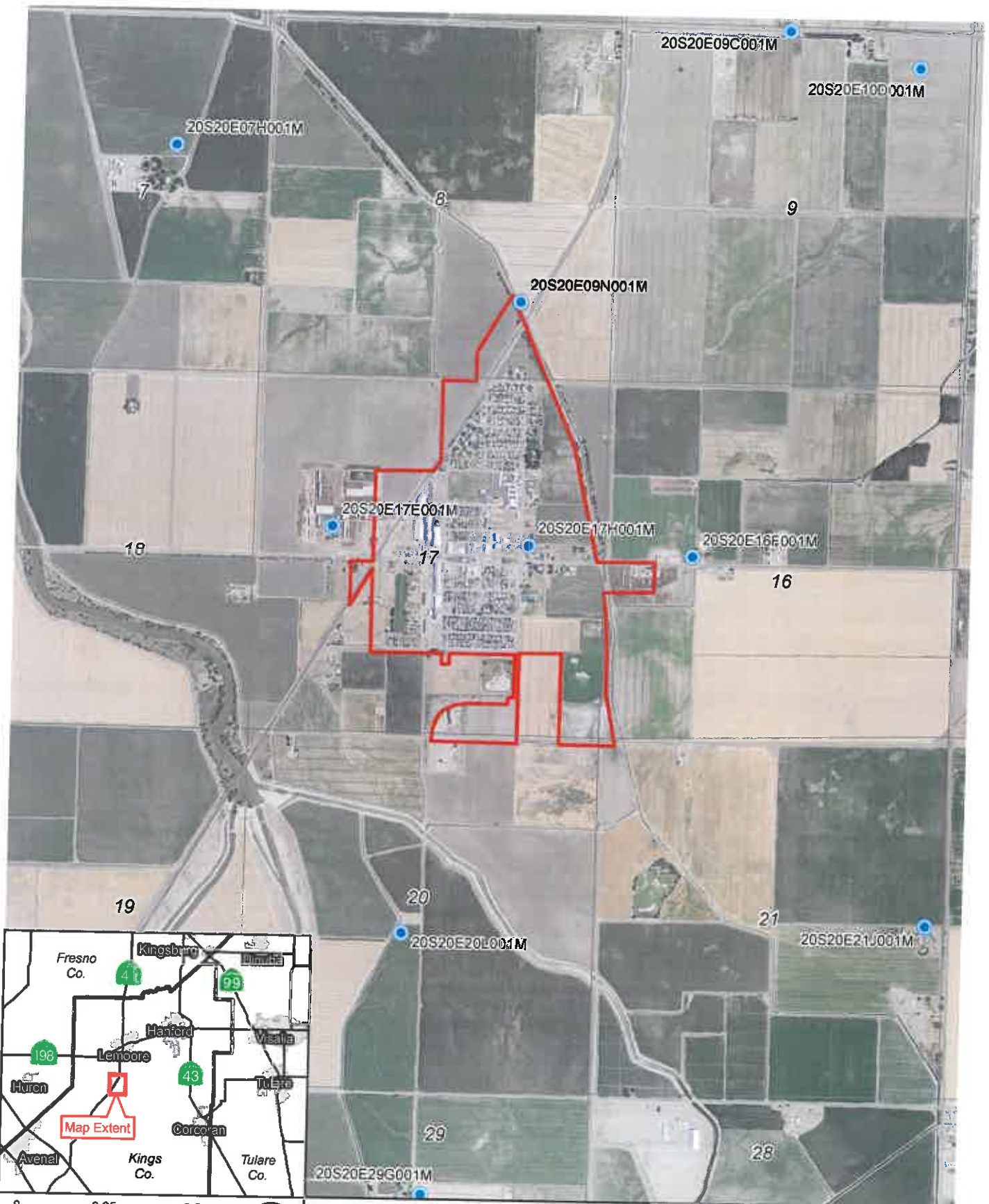
PROVOST & PRITCHARD
CONSULTING GROUP
An Employee Owned Company

286 W. Cromwell Ave.
Fresno, CA 93711-6162
(559) 449-2700

Legend

- Community
- Upper Kings Basin IRWMA
- Westside San Joaquin IRWMP
- Stratford ID

**Tulare Lake Basin
Disadvantaged Community
Water Study**



0 0.25 0.5 Miles

PROVOST & PRITCHARD
CONSULTING GROUP
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EST. 1968

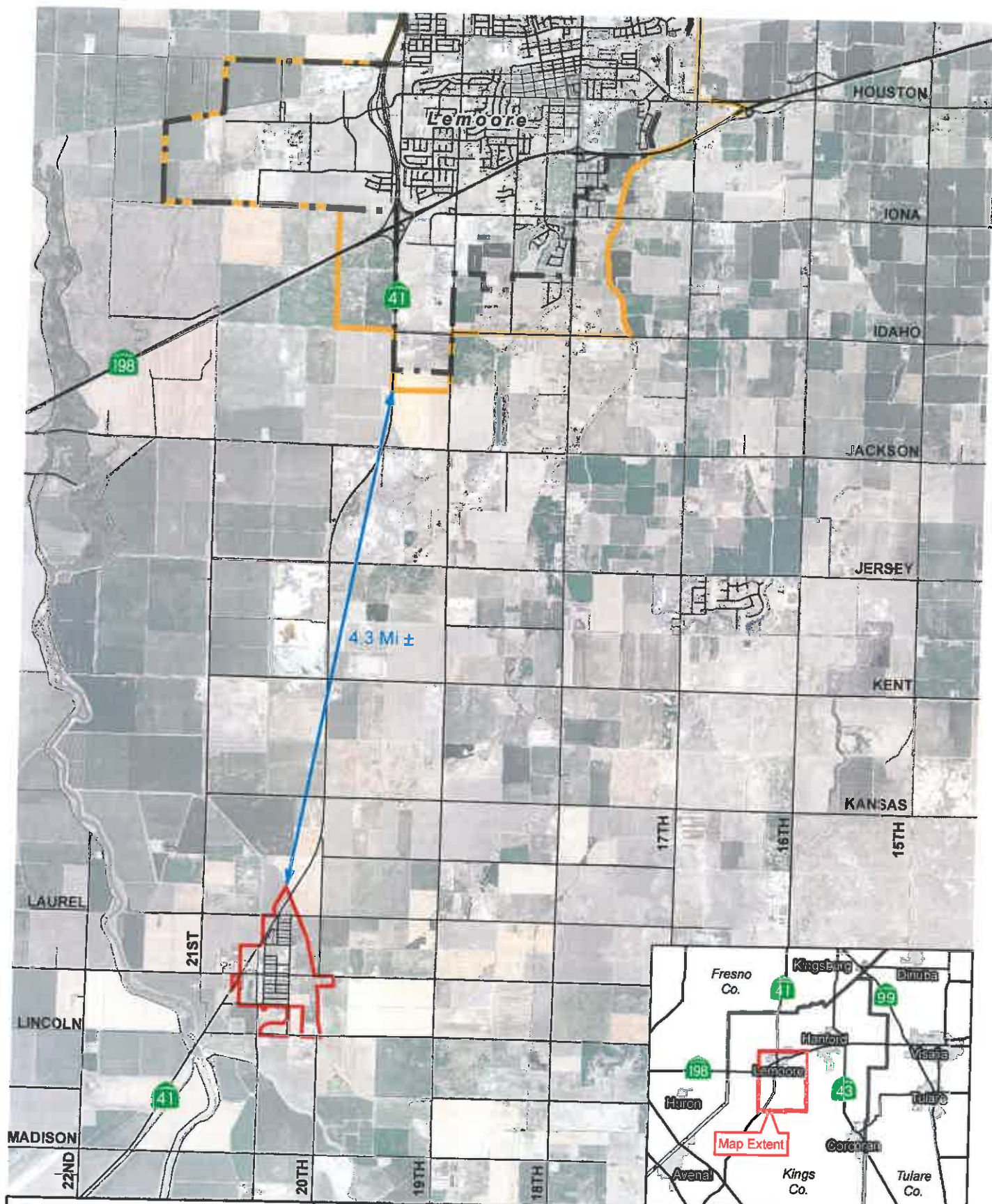
286 W. Cromwell Ave.
Fresno, CA 93711-6162
(559) 449-2700

Legend

- DWR Monitored Well
- Community

Tulare Lake Basin Disadvantaged Community Water Study

Groundwater Monitoring Wells



0 0.5 1 Miles

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CONSULTING GROUP
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EST. 1966

286 W. Cromwell Ave.
Fresno, CA 93711-6162
(559) 449-2700

Legend

- Lemoore City Limits
- Lemoore SOI
- Stratford Community

**Tulare Lake Basin
Disadvantaged Community
Water Study**

Proximity Map



California Department of Public Health
Division of Drinking Water and Environmental Management
Pre-Application for Funding

Page 1

List PreApps

To create a new PreApp, click the yellow New PreApp button to the right.
To edit an existing PreApp, click the green Edit button (e) to the left of the Title.
To delete a PreApp, click the gray Delete button (x) to the right of the Title.
To view or print a PreApp, click on its Title.

| Project # | Edit | Title | Delete | Created | Modified | Status | On | * ARRA Proj. |
|-----------|------|---|--------|--------------------|---------------------|-----------|---------|--------------|
| 005 | ● | Source Capacity Mitigation Project | X | 6-14-13 9:23 am | 7-5-13 2:46 pm | Submitted | 7-5-13 | No |
| 003 | ● | System Pressure and Source Capacity Enhancement | X | 9-16-09 3:57 pm | 9-23-09 10:45 am | Submitted | 9-17-09 | No |
| 004 | ● | Well 7 Methane Reduction | X | 9-16-09 9:51 am | 9-23-09 10:45 am | Submitted | 9-17-09 | No |
| 002 | ● | Stratford PUD Odor Mitigation and Water Storage Project | X | 2-25-09 2:15 pm | 2-27-09 8:29 pm | Submitted | 2-27-09 | Yes |
| 001 | ● | My New First PreApp -- Above ground storage tanks SPUD | X | | 1-17-09 3:12 pm | Submitted | 8-28-08 | No |

Notes:

You **cannot** edit or delete "Submitted" or "Withdrawn" PreApps.
Only "Pending" PreApps can be modified.

The DWP does not use data in "Pending" PreApps in any way.

Your information is only entered into our database after it is "Submitted" -- the last step in this PreApp process.

If your Account has only one record (PreApp) you must call the number below if you want to delete it.

After submitting a PreApp you may choose to withdraw it from consideration.

To withdraw a PreApp, or restore a previously withdrawn PreApp to "Pending", call 916-449-5600.

Subj: Confirmation of Receipt: Universal PreApp - Record ID 5246
Date: 7/19/2013 10:06:30 A.M. Pacific Daylight Time
From: DDWEM.UPREAPP@cdph.ca.gov
To: Kelweg1@aol.com
C: Tricia.Wathen@cdph.ca.gov, Joel.Greathouse@cdph.ca.gov
James James Wegley,

*Forwarded
to Street Pool*

This email confirms we have received your Universal PreApp for the California Department of Public Health's Drinking Water Funding Program. The text of your PreApp is shown below the dashed line at the end of this email.

We recommend you save a copy of this email for future reference.

Your PreApp has been assigned a Record ID Number 5246. Please refer to this number when making inquiries to the Department.

We suggest you monitor the Department's Drinking Water Funding Opportunities web page for information on project ranking and project priority list. We anticipate posting the list later this year.

<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/DWPFunding.aspx>

This email is from an unmonitored mailbox. PLEASE DO NOT REPLY TO THIS EMAIL.

For project-specific TECHNICAL information, your local District Office (Visalia District) contact is:

Ms. Tricia Wathen
265 W. Bullard Ave. Ste 101
Fresno, CA 93704 3158

559-447-3300
Tricia.Wathen@cdph.ca.gov

For FUNDING program information, your Regional Funding Coordinator (Region III) contact is:

Mr. Joel Greathouse
35 W. Bullard Ave
Fresno, CA 93704

559-447-3481
Joel.Greathouse@cdph.ca.gov

Thank you for participating in the Universal PreApp program.

!! NO CHANGES TO THE PREAPP BELOW CAN BE MADE AT THIS TIME -- SAVE THIS EMAIL FOR YOUR RECORDS !!

PART ONE

A. Project Title: Source Capacity Mitigation Project

B. Water System: ID No. 1610006

Stratford Pud
Kings County
294 Connections 834 Population Served
VISALIA DISTRICT (Regulating Entity)
Type C Community Water System
Public School: No

C. Applicant Contact

James James Wegley, Consulting Civil Engineer
Mailing: P.O. 911, Visalia, CA, 93279
Street: 209 South Locust Street, Visalia, CA, 93291
Phone: 559-732-7938

*Project
005*

Friday, July 19, 2013 AOL: Kelweg1

Email: Kelweg1@aol.com

D. Disadvantaged Community: Yes

E. Consolidation / Permanent Intertie

Consolidation: No

Intertie: No

Distance to Nearest Public Water System: > 3 miles

Consolidating With:

F. Other Information

Start Date: October 2013

Aware of Labor Compliance Laws?: Yes

Aware of Environmental Review, Procurement, & Social Policy Requirements?: Yes

G. Funding Category: 1 System Improvement

PART TWO

H. Type of Problem: 3 Other Source Problems

Other source problem

I. Funding

Total Project Costs: \$4412000

Funds Requested: \$4412000

Funds Matching: \$

J. Problem Description

The Stratford Public Utility District (District) provides domestic water to the residents of the unincorporated community of Stratford, located in Kings County and serves about 1,300 people. The District owns three (3) groundwater wells. According to the CDPH September, 2009, water supply permit amendment Engineering Report: Well No. 5 has a capacity of 550 gallons per minute (gpm). Well No. 6 has a capacity of 400 gpm. Well No. 7 has a capacity of 500 gpm. The existing 30,000 gallon water tower was built in 1930.

The Maximum Day Demand (MDD) was 630 gpm and the Peak Hour Demand (PHD) is 945 gpm based on District records.

Well No. 6 is not in use due to sand production. Well No. 7 sees limited use because of methane gas. With only Well No. 5, a forty (40) year old well, in full use, the District's current water supply cannot accommodate MDD, and the PHD requirements. This is a violation of Title 22, Section 64554(a)(3).

When the highest capacity well is "off-line", the well and storage capacity is estimated to be only 521 gpm. This rate is less than the MDD estimate. This is a violation of Title 22, Section 64554(c).

The District serves less than 1,000 connections and the storage capacity is less than MDD, in violation of Title 22, Section 64554(a)(2).

"Water Main Separation". The District's water lines located in the alley do not meet the minimum sewer separation requirements in violation of Title 22, Section 64572.

Water system pressure readings taken from July 9, 2012 through August 6, 2012 ranged from about 8 psi to 61 psi. Pressure less than 20 psi is a violation of Title 22, Section 64602(a).

A "Boil Order" was issued on April 22, 2013 due to system-wide water outage. Boil Order was lifted on April 23, 2013. Well No. 5 was off-line from May 26, 2010 to July 1, 2010 due to mechanical failures of pump and for well casing repairs; and from April 1, 2013, to May 9, 2013, due to mechanical failure of the pump. Well No. 6 has been off-line since November, 2009, due to mechanical failure of pump caused by sand. Well No. 7 was off-line from May 24, 2009 to May 26, 2009 due to repairs to the foot valve; and from Sept. 1 through 11, 2012 due to repairs to the pump and column pipe. The storage tank, erected in 1930 is past its useful life and was off-line from Dec. 6, 2011 to Dec. 21, 2011, to repair leaks.

The District's source water quantity deficiencies place the proposed project in an SRF Category "E".

K. Project Description

The project consists of purchasing additional property adjacent to Well 6, construction of a 900,000 gallon ground level storage tank, installing duplex booster pumps, a hydropneumatic tank, electrical, controls, including one VFD to one booster pump, piping from Well 7 to the tank site, distribution system modification to distribute the flow from the tank. Alternative tank sites will be considered.

Well No. 6 will be rehabilitated to mitigate sand pumping and connected to the proposed tank or abandoned in accordance with local requirements. An emergency electrical power generator, conduit and wire will be installed to provide power to Well No. 7 and one booster pump, or provide for the operation of two booster pumps, only. The improvements will allow the District to provide the Maximum Day Demand of 630 gpm in compliance with Title 22, section 64554(a)(2), pump out of storage to meet peak demands.

Friday, July 19, 2013 AOL: Kelweg1

Storage will also be provided in the tank for fire flow. The water distribution system improvements will improve the distribution of water from the tank and booster pump site into the distribution system. These improvements will improve water source reliability and pressure within the system.

Well No. 5 will be equipped with a properly sized hydropneumatic tank.

About 8,350 feet of water pipelines will be installed in order to abandon about 7,500 feet that currently does not meet the Title 22 separation requirements.

The Project will include the engineering work necessary to complete the above project description. This work also will include technical design, reports, satisfaction of California Environmental Quality Act requirements, a Water Supply Permit amendment to include the water storage tank and appurtenances, property purchase, property annexation if required, and surveying. Engineering will include the preparation of final plans and specifications for bidding purposes. The District will select a general contractor through a public bidding process.

If a funding agreement is executed before October 1, 2013, the environmental review is completed by February 15, 2014, property acquisition is completed by July 15, 2014, Plans and Specifications are submitted to CDPH by September 15, 2014 and CDPH completes their plans and specifications review within four (4) weeks of document receipt, the Project can be advertised for construction by January 15, 2015.

A special Median Household Income (MHI) survey was conducted for the District by Fresno State University, an independent third party in early 2012. The survey was conducted in accordance with standards adopted by the CDPH, United States Department of Agriculture and the State Water Resources Control Board at the time of the survey. The 2010 MHI for Stratford was determined to be \$26,000 or less than 44 percent of the 2010 American Community Survey prepared by the U.S. Census Bureau showing the California Statewide MHI to be \$59,540. The Stratford MHI entitles the District to be awarded 25 bonus points under the SDWSRF Intended Use Plan (SFY 2012-2013) under Bonus Ranking Points, Affordability.

L. Additional Questions

Colorado River Demand Reduction: No Acre Feet:

Monitoring Equipment Required: No Cost: \$

Disinfection Problem(s): No

Description:

California Department of Public Health
Safe Drinking Water State Revolving Fund
2013 July Updated Final DWSRF Project Priority List

| PPL # | System Number | Project Number | Borrower/System Name | Project Name | Project Description | Project Category | Bonus Points | System Type | Problem | Project Costs (\$) | Connections | Population | District | County | Region | List Year |
|-------|---------------|----------------|----------------------|---|--|------------------|--------------|-------------|--|--------------------|-------------|------------|----------|--------|--------|-----------|
| 1543 | 1610006 | 1610006-003 | Stratford PUD | System Pressure and Source Capacity Enhancement | The project consists of purchasing additional property adjacent to Well 6, construction of a 800,000 gallon ground level storage tank, installing booster pumps, electrical, controls, hydropneumatic tank, piping Well 7 to the site, distribution system modification to distribute the flow from the tank and a stand-by generator. The improvements will allow the District to pump out of storage to meet peak demands. Storage will also be provided in the tank for fire flow. Well 6 will also be equipped with a VFD. The water distribution system improvements will improve the distribution of water from the tank and booster pump site into the distribution system. These improvements will improve water source reliability and pressure within the system. | M | 16 | C | The Stratford Public Utility District (District) provides both water and sewer service to the unincorporated community of Stratford. The District's water supply consists of three wells. The wells pump directly into the distribution system with an elevated storage tank. Well 6 is currently not in operation due to sanding problems. Well 7 which was completed in 2004 to improve the water system reliability is shut down because of methane gas. The level of gas in the well has resulted in the District not being able to use the well except for a short time during critical periods. The District has principally been operating on only Well 5. The District has low pressure and inadequate source of supply. The system will not meet Title 22 Waterworks Standards. The residents within the community are low income with the median house income of \$29,205 based on the 2000 census. There are 380 service connections in the District with a population of approximately 1,500. | 1,700,000 | 294 | 837 | 12 | Kings | III | 2009 |
| 3323 | 1610006 | 1610006-002 | Stratford PUD | Stratford PUD Odor Mitigation and Water Storage Project | The proposed project is to furnish and install two (2) - 150,000 gallon water storage tanks connected to well #7. The purpose of the tanks are to aerate the water from well #7, provide fire flow and maximum day demand. The pipeline will allow for bypassing of either tanks. The tanks will be equipped with exhaust systems for venting purposes. During normal operations, two (2) - 5 horse power Variable Frequency Drive (VFD) centrifugal pumps with a capacity of 300 gpm each will transfer the water from the first tank to the second tank. After the second tank two (2) 15 horsepower centrifugal pumps with a capacity of 300 gpm each will pump the water into a 6,000 gallon hydropneumatic tank that will maintain the system pressure at 60 psi. A 60 KW standby generator is proposed to power the pumps to the tanks and blowers should regular power fails. A chlorine disinfection system will be installed. It is anticipated that the site requirements are a 115 feet by 150 feet area to contain the tanks and ancillary facilities. The site is to be fenced and paved with gravel. The tank site will be adjacent to the well # 7 site.For Normal operation, the tanks will operate in series. | N | 20 | C | In and effort to increase source water production, the District installed a new well (#7) in June 2004 to supplement the water production from the existing wells (#5 and #6). However, well # 7 has an odor problem and has been placed off line. The District also has concerns with regards to needed storage for fire protection and emergency power if the main power source fails. | 1,400,000 | 294 | 837 | 12 | Kings | III | 2009 |
| 3330 | 1610006 | 1610006-004 | Stratford PUD | Well 7 Methane Reduction | The project proposes the installation of an air stripper at Well 7. The site is large enough to accommodate the improvements. The air stripper will reduce the level of methane gas from the well. The improvements will also include a wet well, electrical, controls, booster pump and discharge piping modifications. This will allow Well 7 to be used by the District. | N | 16 | C | The Stratford Public Utility District (District) provides both water and sewer service to the unincorporated community of Stratford. The District's water supply consists of three wells. The wells pump directly into the distribution system with an elevated storage tank. Well 6 is currently not in operation due to sanding problems. Well 7 which was completed in 2004 to improve the water system reliability is shut down because of methane gas. The level of gas in the well has resulted in the District not being able to use the well except for a short time during critical periods. The District constructed Well 7 in 2004. The water pumped from the well contains significant amounts of methane gas resulting in the well being turned off. The gas causes a dangerous situation for the community. Without Well 7 the District does not have an adequate water supply and experiences low pressure within the water system. The source water supply for the District does not currently meet the Title 22 Water Works Standards. The residents within the community are low income with a median household income of \$29,205 based on the 2000 census. There are 380 service connections in the District with a population of approximately 1,500. | 750,000 | 294 | 837 | 12 | Kings | III | 2009 |
| 4208 | 1610006 | 1610006-001 | Stratford PUD | Stratford PUD | Two 50,000 gallon above ground storage tanks along with a pressure pump and a stand-by generator. | O | 0 | C | We recently drilled a new well due to the constant water level drop in our area. We completed the project in June of 2004. However the problem we have come across is that the well is producing a large of air along with the water. Our only source of pressure is a 30,000 gallon elevated storage tank, due to the small growth and having exhausted all of our funds in the const. of the new well we are now looking for funding for the above ground storage. With the addition of two 50,000 gallon above ground tanks I believe we can solve two of our problems. 1.) Storage for fire protection 2.) Detention time for the air in the water to vent. With the tanks we would also need a pressure pump and stand by generator for power outages | 200,000 | 294 | 837 | 12 | Kings | III | 2008 |

STRATFORD PUBLIC UTILITY DISTRICT

Fiscal Year 2013/2014

PROPOSED

DEPARTMENT: WASTEWATER COLLECTION

FUND: 13000

| ACCOUNT NUMBER | DESCRIPTION | FY12/13 Budget | Proposed Budget |
|---------------------------------------|--------------------------------|-------------------|--------------------|
| 13100 | Personnel Services | | |
| 13101 | Full-Time Employees - Regular | | |
| 13102 | Full-Time Employees - Overtime | | |
| 13103 | Full-Time Employees - Vacation | | |
| 13104 | Part-Time Employees - Regular | | |
| 13105 | Part-Time Employees - Overtime | | |
| 13106 | Part-Time Employees - Vacation | | |
| 13107 | Temporary Employees | | |
| 13108 | Retirement Contribution | | |
| 13109 | FICA Contribution | | |
| 13110 | State Unemployment | | |
| 13111 | Workmans Comp. | | |
| 13112 | Health Insurance | | |
| 13113 | Dental Insurance | | |
| 13114 | Vision Insurance | | |
| 13115 | Life Insurance | | |
| 13116 | Uniform Service | | |
| 13117 | Training | | |
| 13118 | Meals | | |
| 13119 | Travel | | |
| 13120 | Lodging | | |
| 13121 | Other Personnel Services | | |
| Subtotal Personnel Services | | \$ - | |
| 13200 | Utilities | | |
| 13201 | Electricity | | |
| 13202 | Gas | | |
| 13203 | Telephone | | |
| 13204 | Water/Sewer | | |
| 13205 | Radio/Communications | | |
| 13206 | Other Utilities | | |
| Subtotal Utilities | | \$ - | |
| 13300 | Professional Services | | |
| 13301 | Engineering Services | | \$ 50,000 |
| 13302 | Legal Services | | |
| 13303 | Auditing/Accounting Services | | |
| 13304 | Computer Services | | |
| 13305 | Regulatory Agencies | | \$ 1,600 |
| 13306 | Laboratory Services | | |
| 13307 | Testing Services | | |
| 13308 | Contract Services | | |
| 13309 | Other Professional Services | | |
| Subtotal Professional Services | | | \$ 51,600 |

DEPARTMENT: WASTEWATER COLLECTION

FUND: 13000

| ACCOUNT NUMBER | DESCRIPTION | FY12/13 Budget | Proposed Budget |
|-------------------|--|-------------------|--------------------|
| 13400 | Parts & Supplies | | |
| 13401 | Office Supplies | | |
| 13402 | Cleaning Supplies | | |
| 13403 | Shop Supplies | | |
| 13404 | Laboratory Supplies | | |
| 13405 | Building Maintenance Supplies | | |
| 13406 | Street Maintenance Supplies | | |
| 13407 | Grounds Maintenance Supplies | | |
| 13408 | Chemicals | | |
| 13409 | Lubricants | | |
| 13410 | Motor Vehicle Fuels | | |
| 13411 | Equipment Parts | | |
| 13412 | Machinery Parts | | |
| 13413 | Tools | | |
| 13414 | Miscellaneous Parts & Supplies | | |
| | Subtotal Parts & Supplies | \$ - | |
| 13500 | Repair & Maintenance | | |
| 13501 | Equipment Repair & Maintenance | | \$ 5,000 |
| 13502 | Machinery Repair & Maintenance | | |
| 13503 | Street Repair & Maintenance | | |
| 13504 | Grounds Repair & Maintenance | | |
| 13505 | Building Repair & Maintenance | | |
| 13506 | Computer Repair & Maintenance | | |
| 13507 | Rentals/Leases - Equipment | | |
| 13508 | Rentals/Leases - Machinery | | |
| 13509 | Other Repairs & Maintenance | | |
| | Subtotal Repair & Maintenance | | \$ 5,000 |
| 13600 | Other Services & Charges | | |
| 13601 | Debt Service | \$ 18,100 | \$ 18,100 |
| 13602 | Depreciation | | |
| 13603 | Insurance | | |
| 13604 | Licenses & Permits | | |
| 13605 | Property Taxes | | |
| 13606 | Books/Subscriptions | | |
| 13607 | Memberships | | |
| 13608 | Legal Notices | | |
| 13609 | Freight/Postage | | |
| 13610 | Printing/Binding | | |
| 13611 | Operating Transfers | \$ 26,025 | \$ 55,250 |
| 13612 | Miscellaneous Services & Charges | | |
| | Subtotal Other Services & Charges | \$ 44,125 | \$ 73,350 |
| 13700 | Capital Outlay | | |
| 13701 | Construction | | |
| 13702 | Equipment | | |
| 13703 | Machinery | | |
| 13704 | Office Furniture/Equipment | | |
| | Subtotal Capital Outlay | \$ - | |

TOTAL BUDGET - WASTEWATER COLLECTION **\$ 44,125** **\$ 129,950**

**Account
Number**

Notes

13301 Wastewater Treatment Project
12305 Annual Wastewater Discharge Payment.

13407 Weed spray etc.

13501 Collection system cleaning.

13611 Based on 25% of anticipated General Fund expenditures.

New Sources Pilot: Stratford Community Review Process Meeting

Stratford Fire Department
20200 Main Street in Stratford
5:30 to 7:30PM
February 25, 2014

Meeting Minutes

At 5:38 Maria started the meeting.

She explained the purpose of the TLB DAC study. She also presented intro in Spanish. She asked for those in attendance to introduce themselves. 12 in attendance at beginning of intros and growing to 17 people. 18 people in audience at 6:14 plus Maria, Michael and PB.

Maria Herrera, CW

Jeff Gonzalez, president SPUD

Gary resident since 1961 and member of board

Patty Silva, was resident of 15 years and office manager of SPUD.

John Dempsey, manager of SPUD

Maricela DeLaTorre, rep from Kettleman City

Resident of KC

President of MAPA of Fresno

Has lived in Stratford for 17 years

She has been here for 21 years

Maria Vega 19 years

Pimentel 22 years

Hortencia 25 years

Martha 30 years

Ramon 34 years

Jose Maldonado 18 years

Gilbert Felix representing Assemblyman Rudy Salas

Jim Wegley, Keller Wegley Engineers

Paul Boyer, SHE

Michael Taylor, P&P

Maria went on to explain that this meeting is a part of the \$2 million DAC needs pilot study. Explained SOAC and range of issues selected. The new source pilot is one of 4 selected. Mentioned economies of scale to have TMF to affordably operate water and sewer systems. Challenges that small water systems face. The pilot will look at how to move community water needs ahead to build a foundation to eventually implement future projects.

Maria explained that there is a community process component such as the meeting being held today. The intent is to see if the report is realistic and useful for communities. And most importantly what is it going to take to make solutions happen. We want to hear what is important to Stratford's residents. Michael Taylor has reviewed water issues and potential solutions which he will be presenting.

Michael began his presentation:

He stated that the local Stratford Public Utility District (SPUD) Board is already is educated on its needs. It has good staff and consultants that are aware. Issue is more having enough water as opposed to bad water. Having good water doesn't mean it is perfect e.g. 1 well with methane is not a health concern though it is unpleasant. Challenge that Stratford faces is that it is isolated and not near another community water or sewer system. They are too far to connect with anyone else so it is unfortunate. One other example of a challenge for Stratford that is common to a lot of other systems is that the water system was built a long time ago. Soils and conditions are different. Age, material, size of pipelines is a challenge. There appears to be minimal water loss. Not a lot of difference from quantity of water pumped versus what gets delivered. However, the District would benefit from being proactive in staying ahead of the curve.

The solutions that the District is already pursuing, such as a new well and storage tank are appropriate according to MT. Additional efforts and approaches to funding might be able to help. He has some ideas on how to help get these solutions funded. How can district get the funds to understand the magnitude of the problems and fund solutions. Money comes up all the time as the challenge.

In summary, MT couldn't unknown alternative solution for Stratford. He would have the same recommendations...more water and additional water source and storage. Including allowing methane in water to dissipate while in storage. He mentioned decision trees will be discussed later.

Comment from resident is they are paying \$80 per month. He states that gas in water is a problem. He said District had spent \$800 for well video and if that had anything to do with addressing gas issue. He wants more clarification.

From Manager: Video could not find a zone that was actively produced in well with no pump in it. They could not see any bubbles. As such it is thought gas is dissolved in water that gets pumped from well and they are not sure which strata has methane. If water goes into tank it can "off gas". Resident wants to know if District is still pursuing a solution. Response is that District has submitted pre-apps for funding, but no app has been invited because this problem is not considered a health issue.

Maria: we want to know if we have adequately captured the water needs of this community; no additional concerns were reported at that time.

The decision tree with attachments was passed out. 9 copies were available so people shared. MT explained that this guide is intended to help Stratford as well as other communities with similar water issues. One of the purposes is to benefit board and community members to get a better idea of some of the tasks and decisions that are necessary to take through the development of a project. This can be also helpful for those communities that don't have an engineer to go through the process.

There are a lot of different shapes and lines. If it is a rectangle gathering info; diamond is a question; triangle getting funding. Step 1, 2, 3 etc. The smaller sheets (8.5 x 11) have details on one piece at a time to go to next step. For example do you have enough water yes or no. All of the questions on water supply there are 9 different possibilities... consolidation; surface water; recharge; regional facility; drill a new well; treat the water from an existing well; water conservation; for large grassy areas irrigate with non-potable water; source water protection by dealing with a source of contamination such as houses on septic tanks by sewerage homes and removing source of contamination.

Question came up if nitrates are an issue. Response was that nitrates aren't a problem in drinking water in Stratford, but is a problem in a lot of the valley. Response also was that if system had nitrates, the

water could be worse and system might qualify easier for funding, but that is not the case here. A lady in audience asked to address the Board and it was stated the next SPUD meeting will be March 12th she can speak at.

MT recommended using a highlighter to trace along the appropriate paths to follow the order of steps to take. As always money is the challenge, he will make some suggestions to enhance the pre-apps that have been submitted to make stronger case. IRWMs described by MT and stated the SPUD is pursuing a couple of funding options through the IRWM groups.

If the District is fortunate to receive an offer of funds, the district would be at step 3. Who makes decision: Green –district ; blue a consultant; morado-someone such as the state. Evaluation of grants or loans.

Then go to the 9 options.

A Kettleman City resident (Maricela) noted that in her community the water quality issues are arsenic and benzene. She asked whether or not KC should look at finding solution with Stratford which is 15 miles away. MT responded that the distance is too far to be affordable by taking into account cost to construct and to operate. He also noted the 5 mile rule on the decision tree when evaluating consolidation with a neighboring community. Maricela then questioned how firm the 5 mile rule is and asked how communities like Selma, Kingsburg and Parlier were able to get around the 5 mile rule and still be able to share a regional wastewater facility. MT noted that Cities are larger and may have more resources making it possible to consolidate with systems beyond 5 miles. He also noted that some funding sources have limits on max funding which might apply to this situation.

For Stratford the appropriate options are:

The options that fit Stratford are more supply through a new well- this option broken into 8 steps each on a single page. It is known that good water can be located here. The main issue is if the District can find the money to undertake project. Tied with money is not just cost of building, but to run water system improvements as well. If there is a loan, then there is debt service to repay. This all leads to whether the community residents can afford the charges for the service.

Step 3 of new water supply well is a prop 218 process where property owners have a say on whether rates will be raised. If no government funding available, there is option for District to secure private financing, but this is usually more expensive and results in higher rates. One of the important things for a new well is to drill a test well first to locate stratas that do not have contaminants...so that bad zones of water underground can be avoided. The goal is not to treat because that can cost a lot and it goes on forever.

One of recommendations is for water storage. Such a tank would provide several benefits to help off gas the methane, store water for peak flows such as to fight a fire, or to help if there is not enough water from wells at peak flow requirements.

Old small pipelines will need to be replaced to get better flow through system. This may not be necessary for all of the distribution system, but at least a portion of the system. A couple of the other alternatives would be water treatment, but this is not recommended other than for off gassing at tank.

Water conservation not recommended. Board member asked why. MT suggested encouraging, but water meters are the most effective which District already bills by.

Another option to consider would be to irrigate turf at the school. MT feels this would be a lower tier option. He explained it takes all parties to agree to such an option. It may take a lot of effort, which could be spent on securing funds for a new well and/or storage tank.

Another deliverable that MT can provide to District is the material he collected primarily from District which he has organized with decision tree. He hopes this organization of material can be helpful to District.

Maria summarized that a lot of info was provided, and asked if audience has any comments/feedback on the decision trees. She also encouraged participants to share comments at a later time.

Questions/comments from community residents:

Is this unique to Stratford? Yes so each community can follow its own path. But the benefit of pilot study is to make a generic tree that will work for them. To help see what works. Maricella explained that Stratford is lucky to have this guide presented to them. KC folks never had such a guide to review the options.

Two ladies suggested that there be a specific guide for Stratford that only shows the applicable options to make it easier to follow.

President sees that the process map works. He is familiar with charts, but not everyone goes through as well.

Salas rep asked if pilot study is for Stratford. Yes. He asked which communities had such pilots done such as KC and Riverdale. Maria responded with criteria was put together to select and Stratford was one of a few selected. Response was that funding came from DWR. Also it was explained that there will be a similar meeting on the treatment pilot process in Home Garden on Thursday at 5:30.

Maricela expressed concern that in KC they were told what solution would be without evaluation of other options. She likes these options.

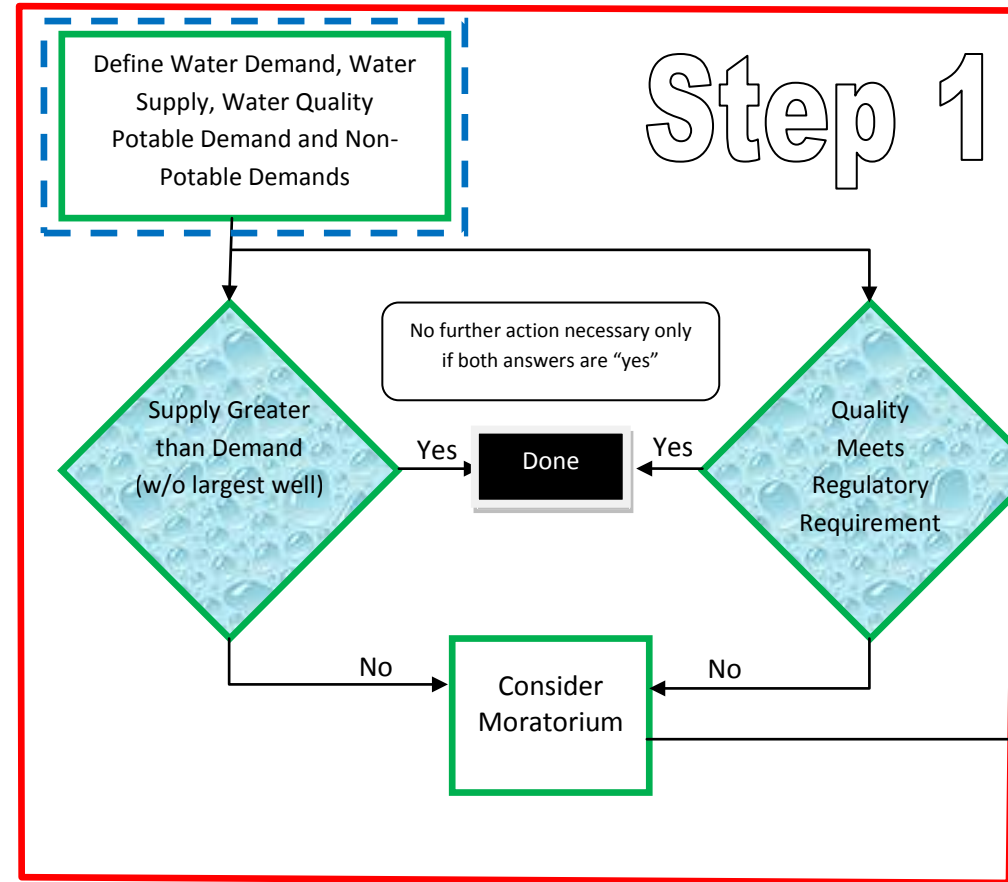
Maria summarized that we would like to get feedback from SPUD staff and board and all of those that attended the meeting.

start

New Source

Stratford PUD

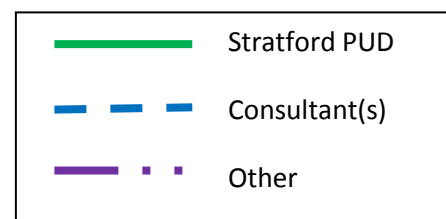
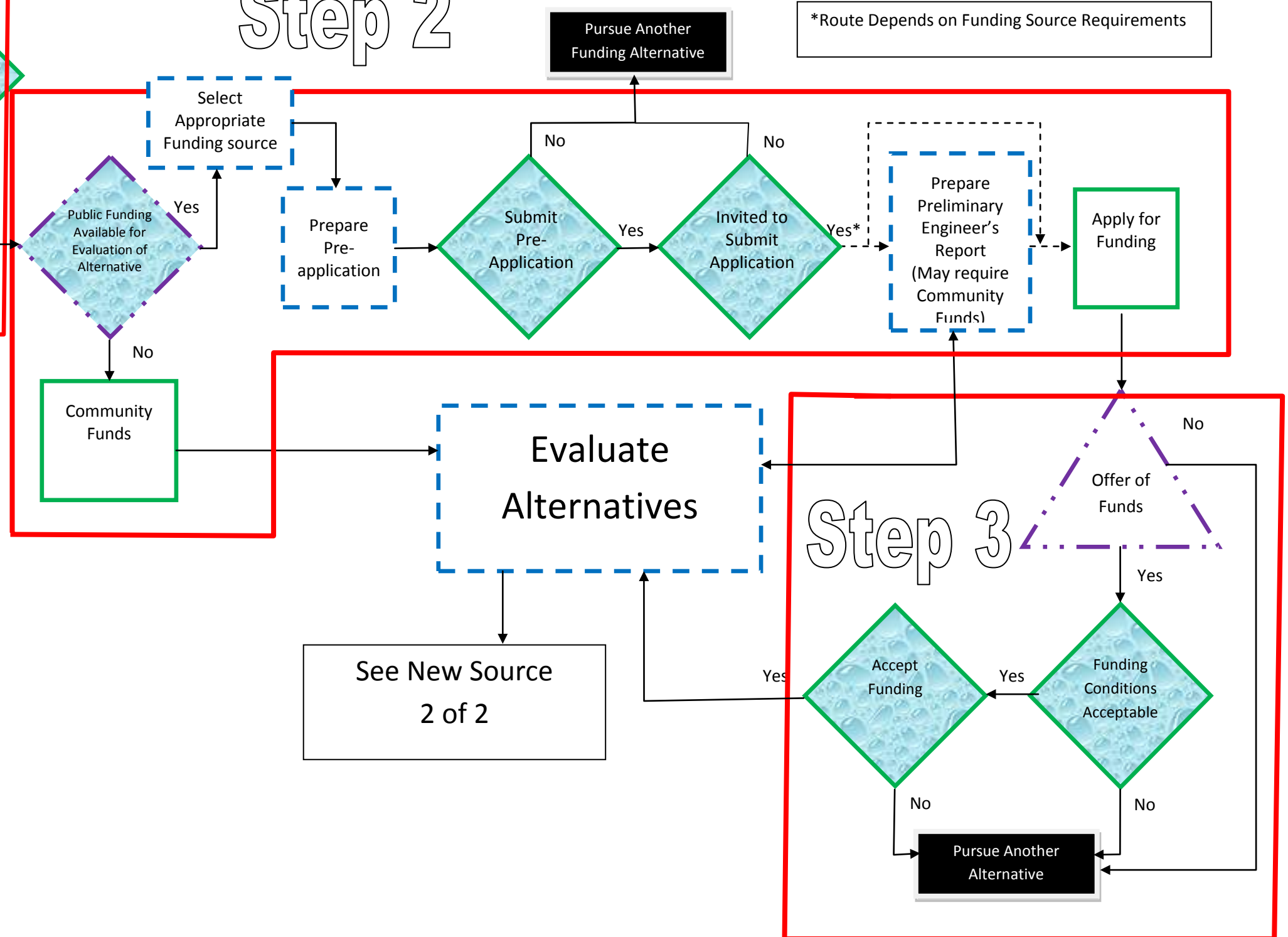
Step 1

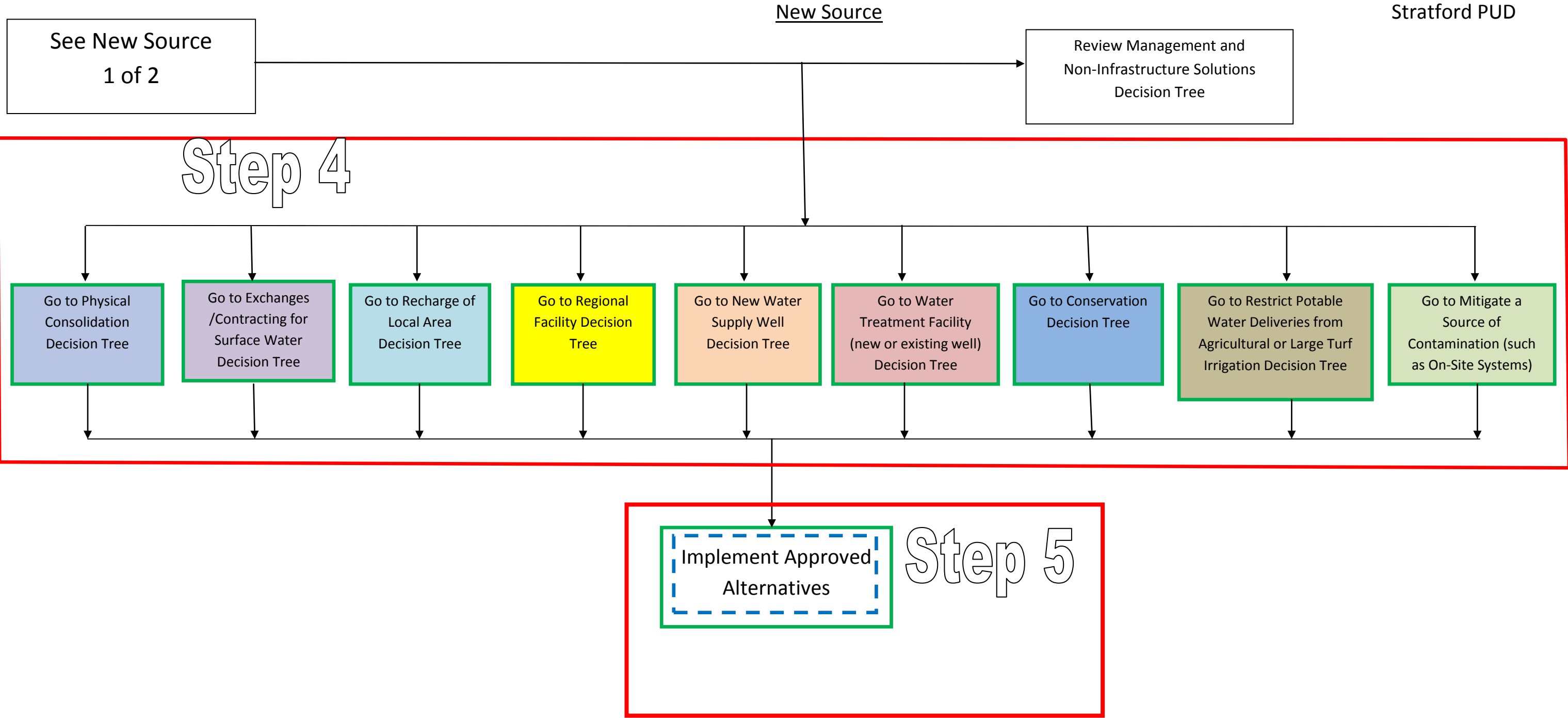


If you do not know how to answer one of the questions presented:

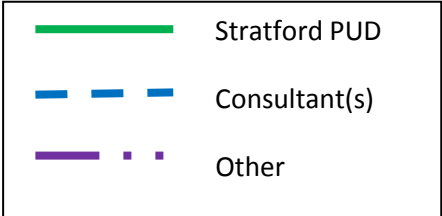
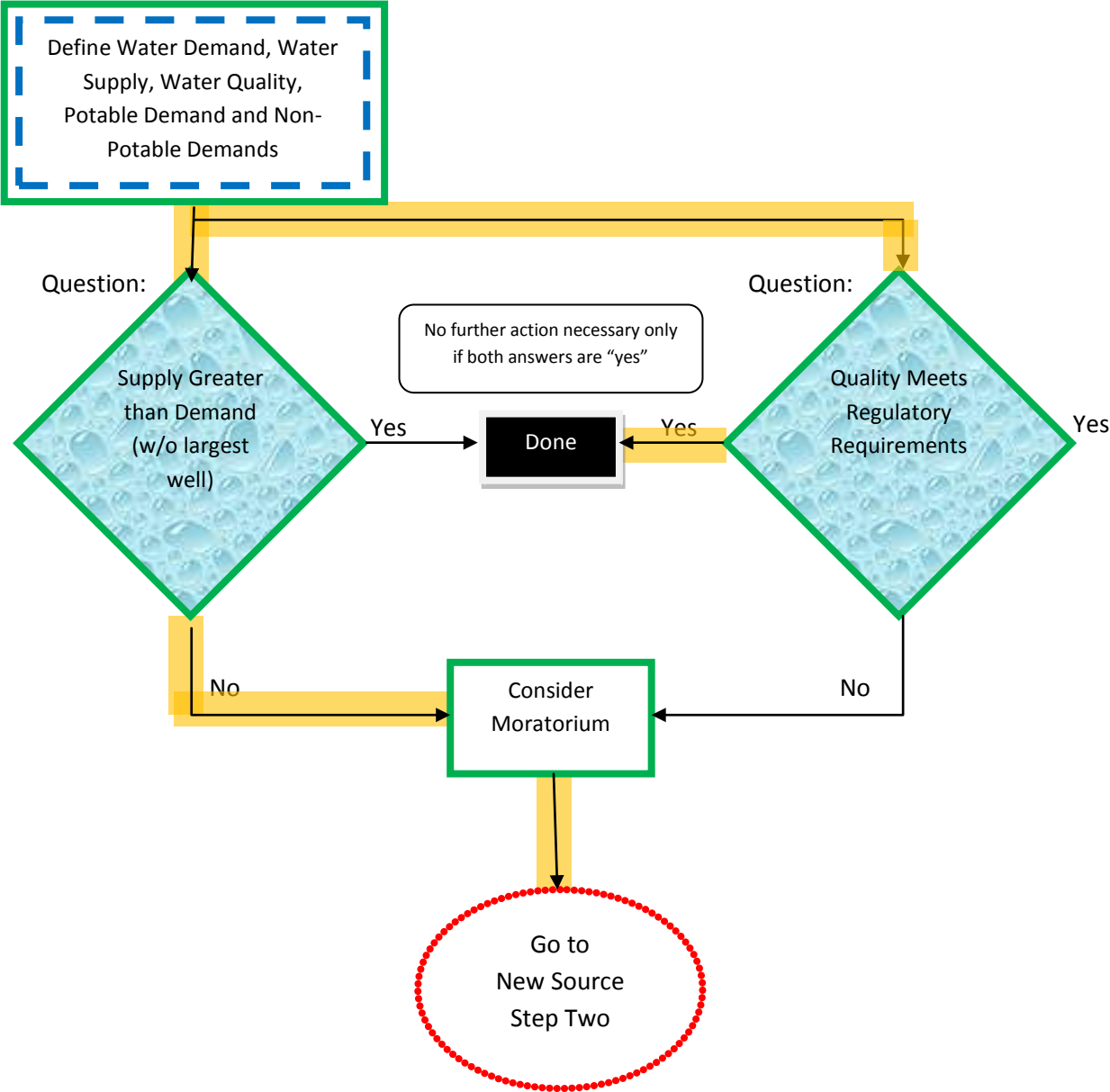
- Complete Self Assessment Worksheet (Appendix H);
- Review most recent Sanitary Survey or Inspection Report;
- Contact the California Department of Public Health; or
- Contact the local County Environmental Health Department

Step 2





Stratford PUD
New Source
Step One



Stratford PUD
New Source
 Step One

Stratford PUD

Population; ± 1,300

Service Connections; ± 366

Water Rate; Metered, base rate \$13.00 per month regardless of meter size, includes 4,000 gallons, \$1.20 per 1,000 gallons over the 4,000 gallons

Average Monthly Bill - \$ 36.40

FY 2012/2013 Budget (water only); \$144,100

FY 12/13 Year-to-Date Expenditures (water only); \$178,442

Distribution System Age; ± 50 years

Demand (GPM)

| | Per CDPH | Per Stratford | | |
|---------------------------|------------|-----------------------------|--------------|---------------------|
| Max per day | 344 | 620 | | |
| Peak Hour | 516 | 945 | | |
| Capacity (GPM) | | | | |
| | | <u>Date</u> | <u>Depth</u> | |
| | | <u>Constructed</u> | | |
| Well 5 | 500 | 1973 | 720' | perfs 420' – 720' |
| Well 6 ¹ | 400 | 1976 | 610' | perfs 400' – 610' |
| <u>Well 7²</u> | <u>500</u> | 2005 | 1250' | perfs 660' – 1,170' |
| Total | 1400 | | | |
| | 1000 | if Well 6 is not used | | |
| | 500 | if Well 5 if out of service | | |

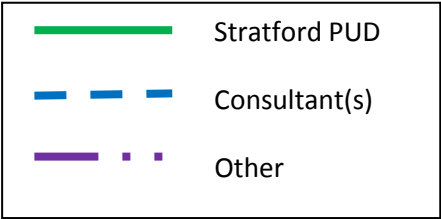
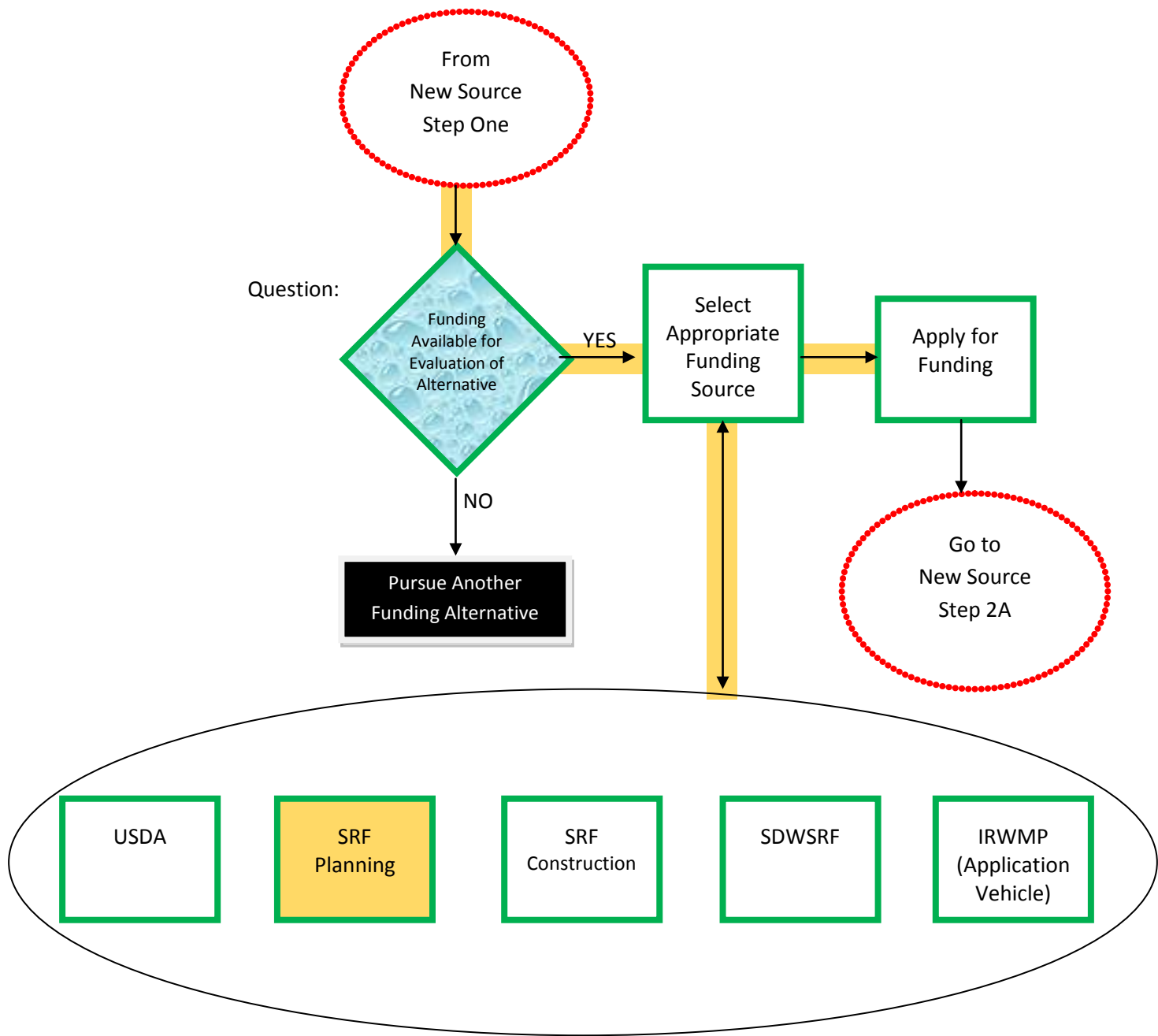
If Well 6 is Inactive or Standby, then system may not have capacity for Peak Hour.

Note¹ – Well 6 not used since 2006 (sand)

Note² – Well 7 – Methane. Test well not constructed

Continuous Chlorination

Stratford PUD
New Source
Step Two

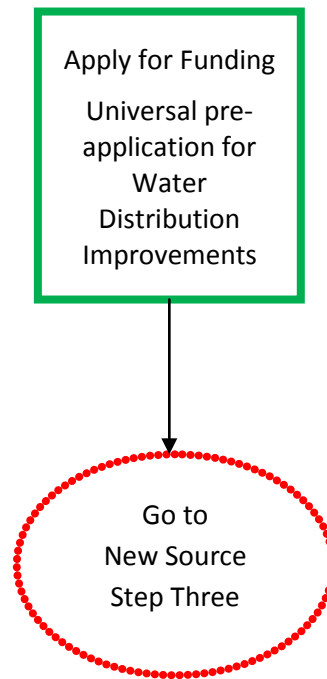


Stratford PUD
New Source
Step Two A

Proposition 84
Funding
Application
Feasibility Grant
July 2013

Go to
New Source
Step Three

Stratford PUD
New Source
Step Two B



Stratford PUD

New Source

Step Two C

Step Two

Stratford PUD SDWSRF Pre Application Above Ground Storage Tanks August 2008

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$200,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Odor Mitigation and Water Storage Project February 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$750,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Well 7 Methane Reduction September 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$1,400,000
Timeline of Preparation
Response to Application:

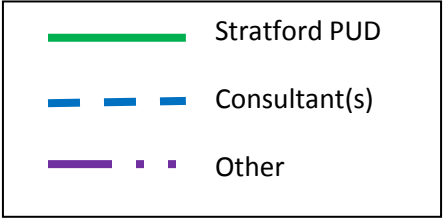
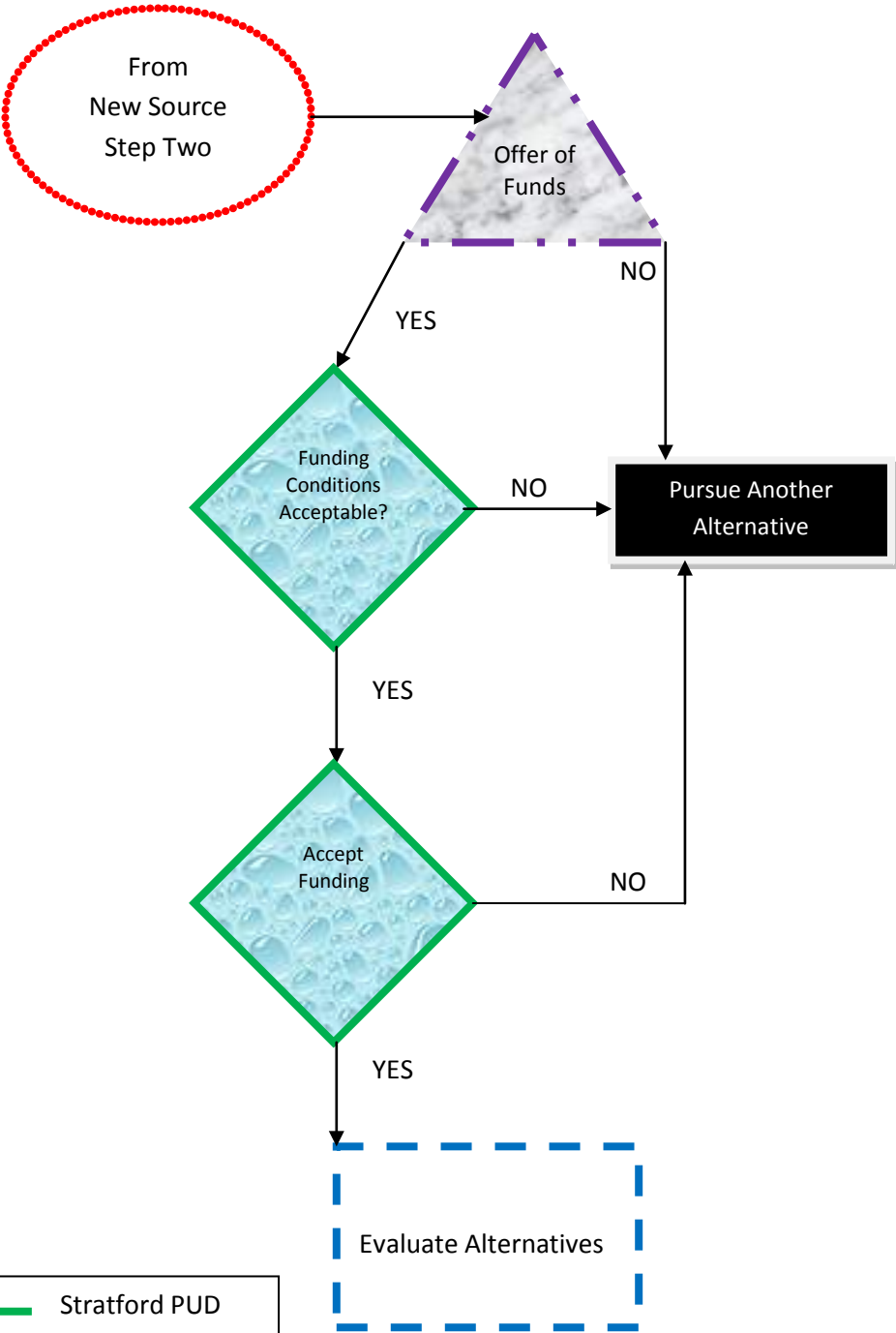
Stratford PUD SDWSRF Pre Application System Pressure and Source Capacity Enhancement September 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$1,700,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Source Capacity Mitigation Project July 2013

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$4,412,000
Timeline of Preparation
Response to Application:

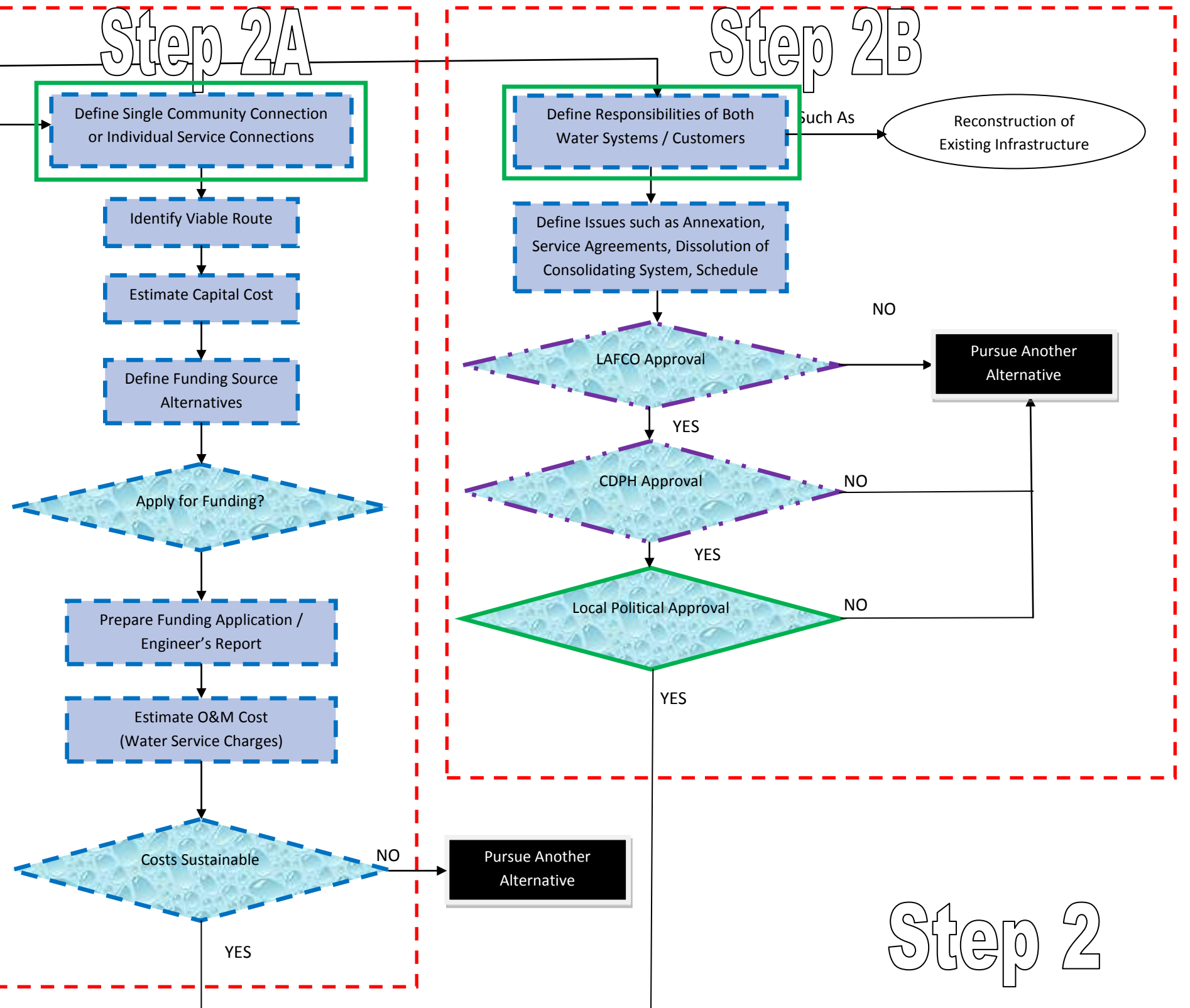
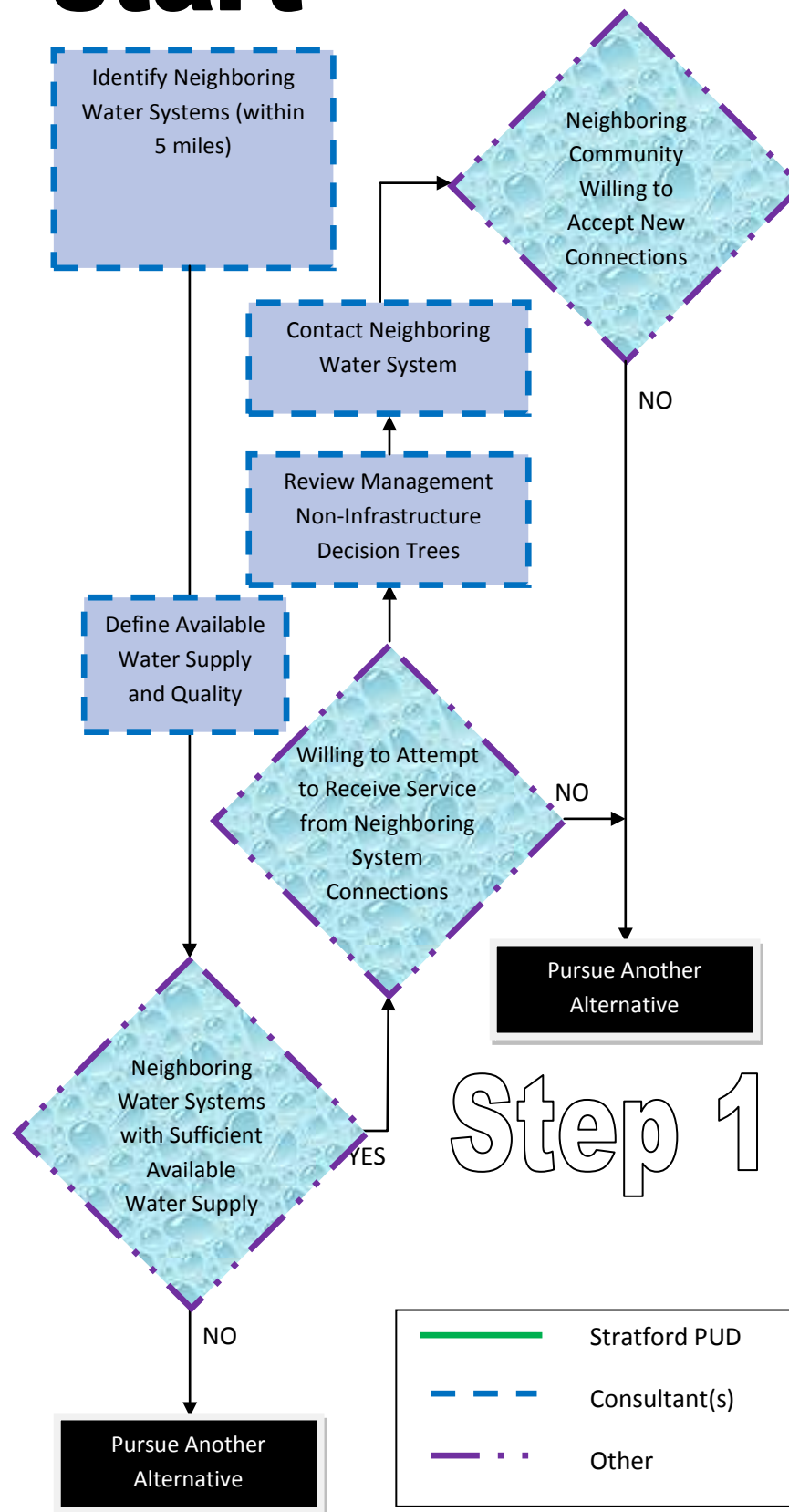
Stratford PUD
New Source
Step Three



start

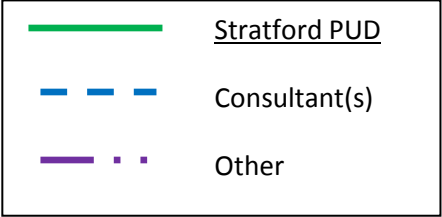
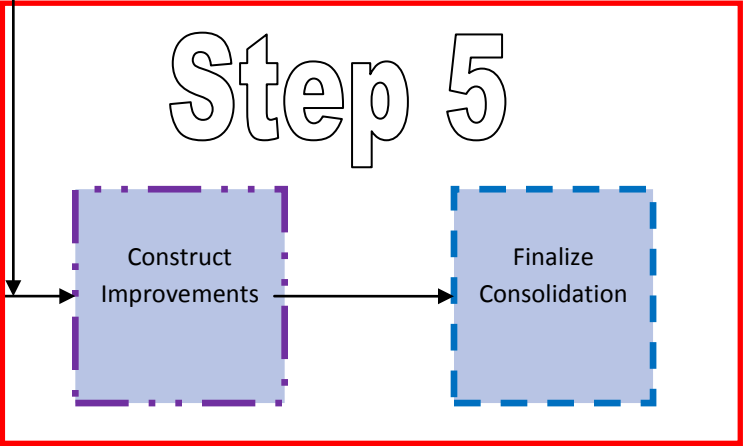
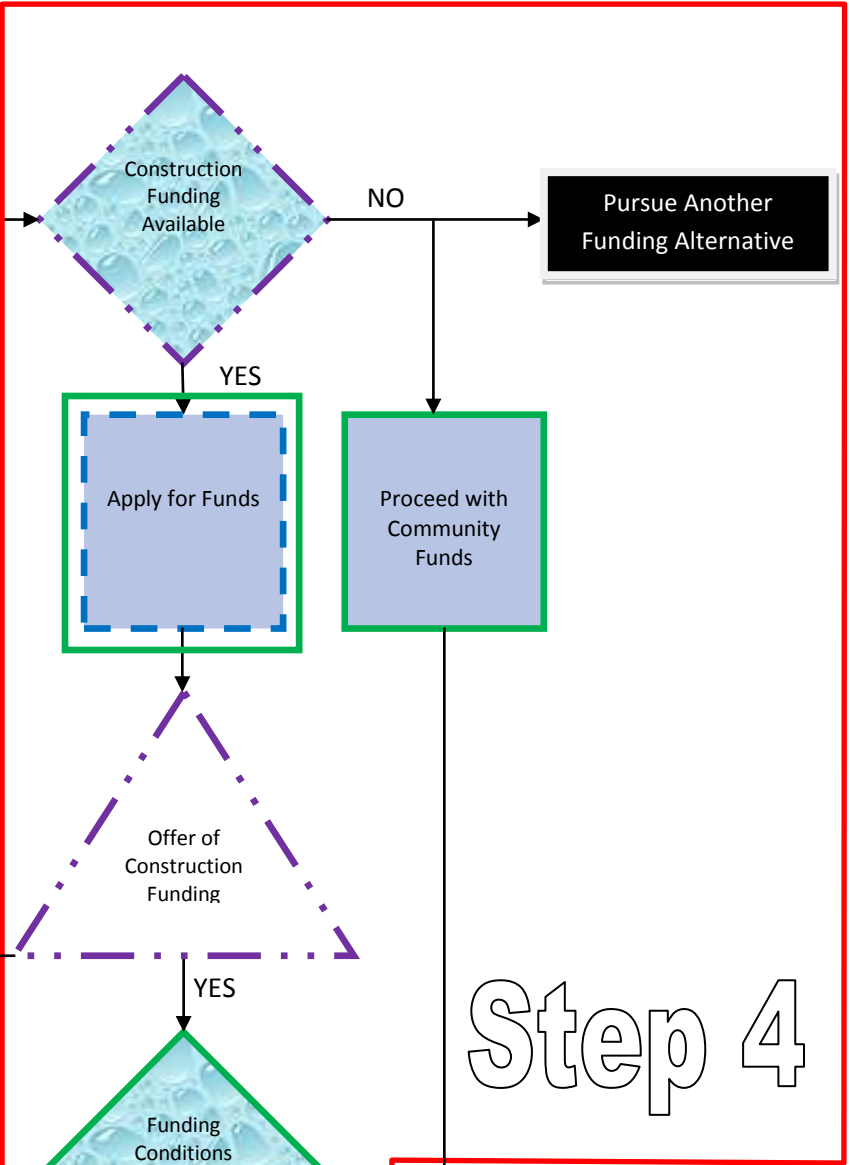
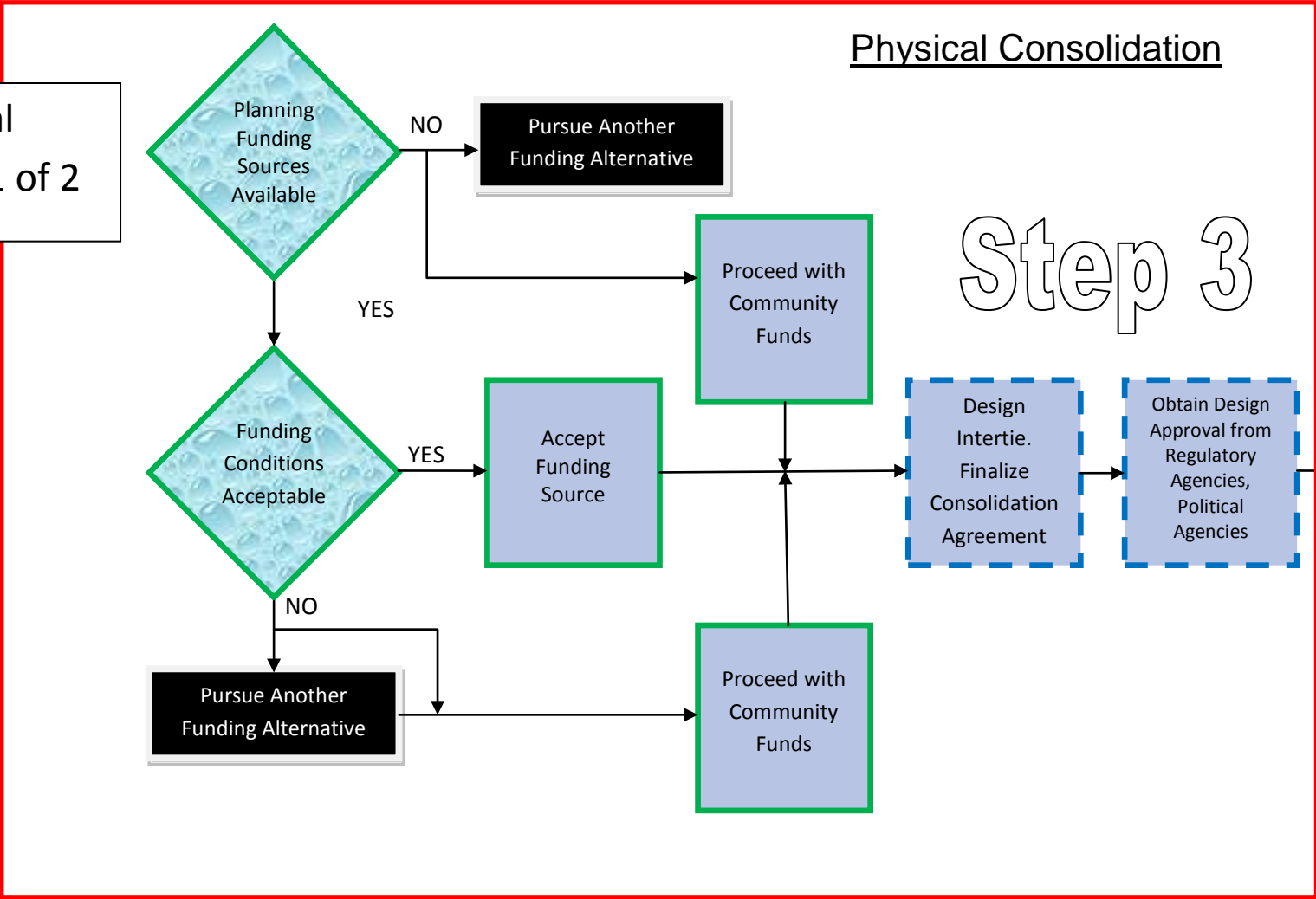
Physical Consolidation

Stratford PUD



Physical Consolidation

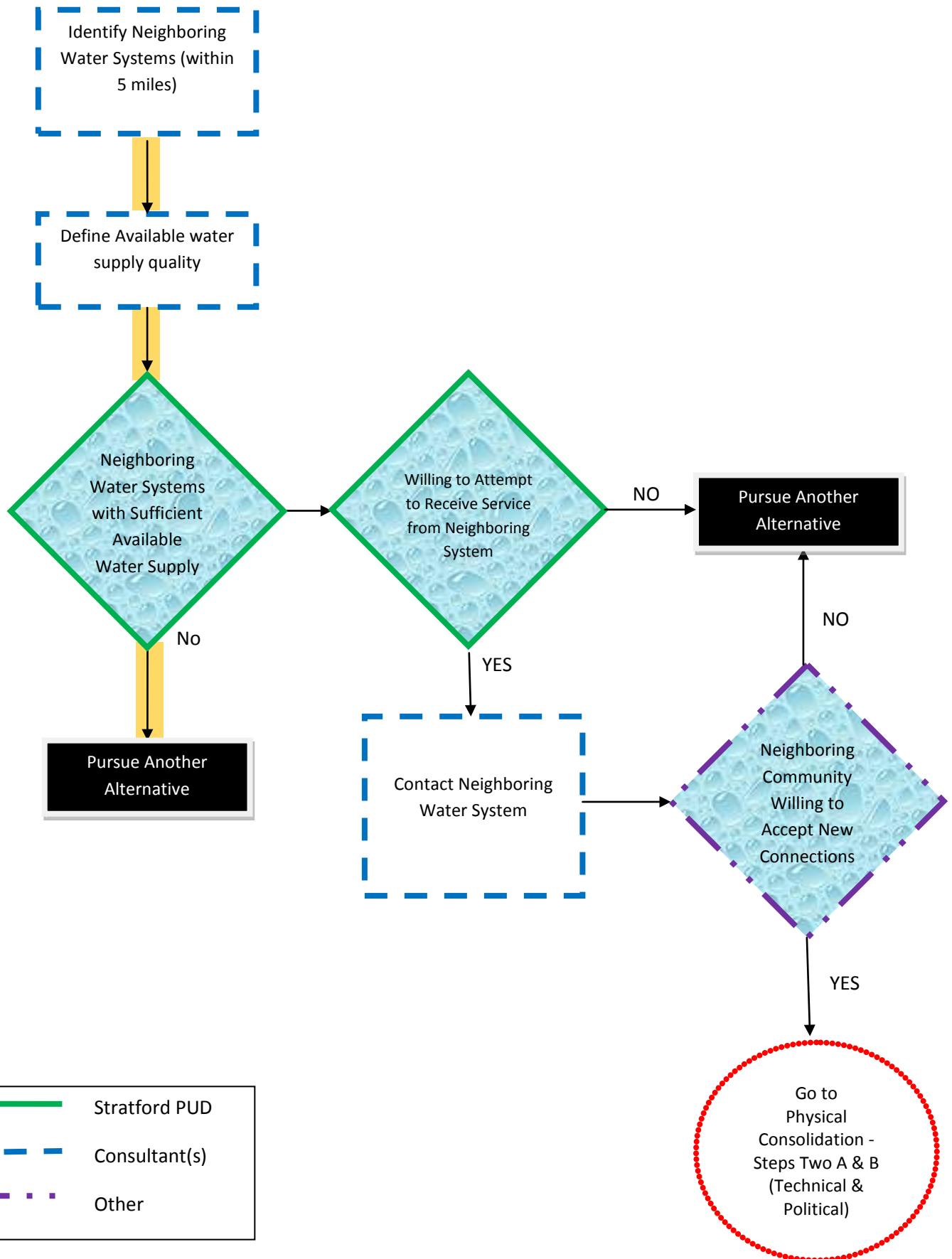
See Physical Consolidation 1 of 2



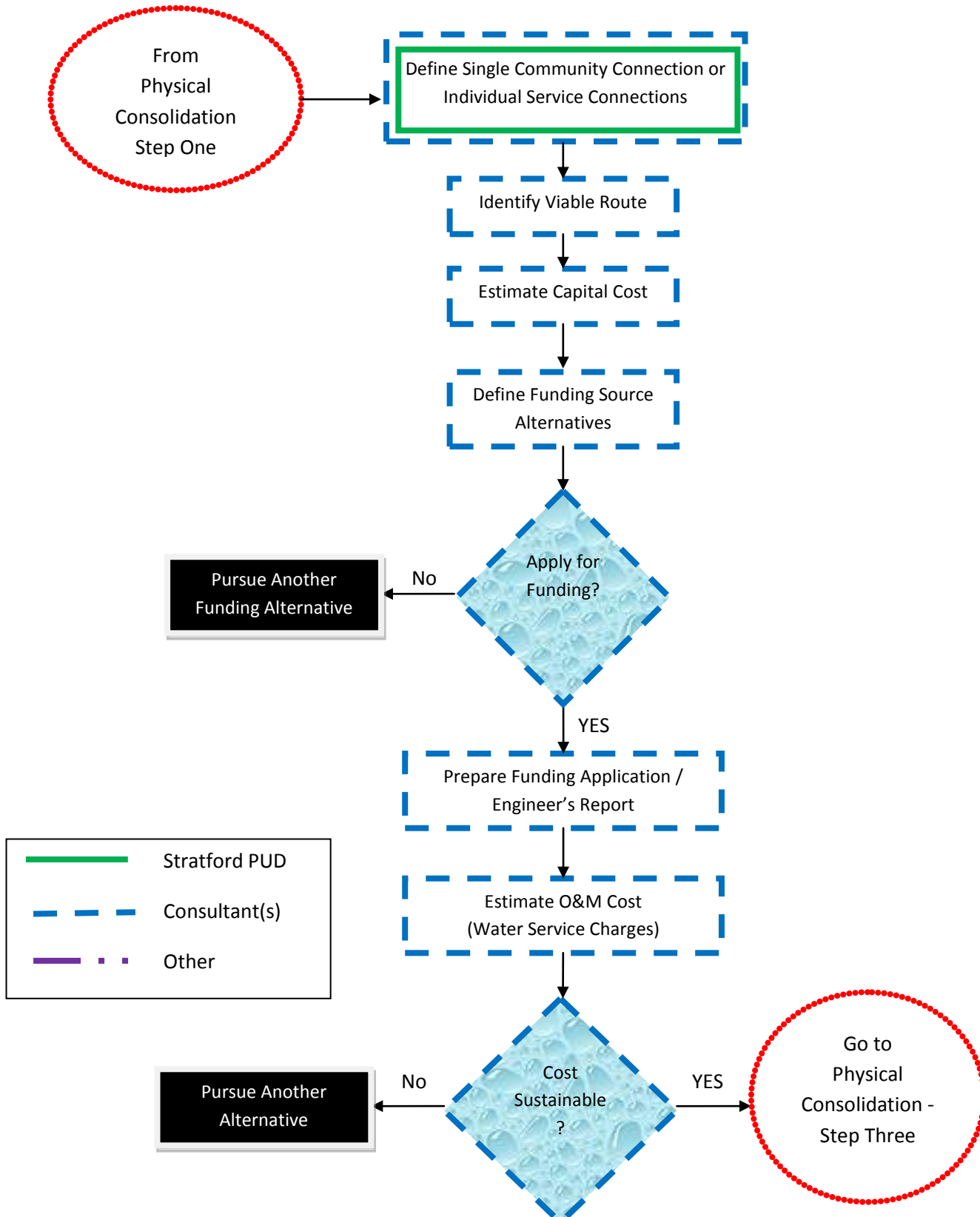
Stratford PUD

Physical Consolidation

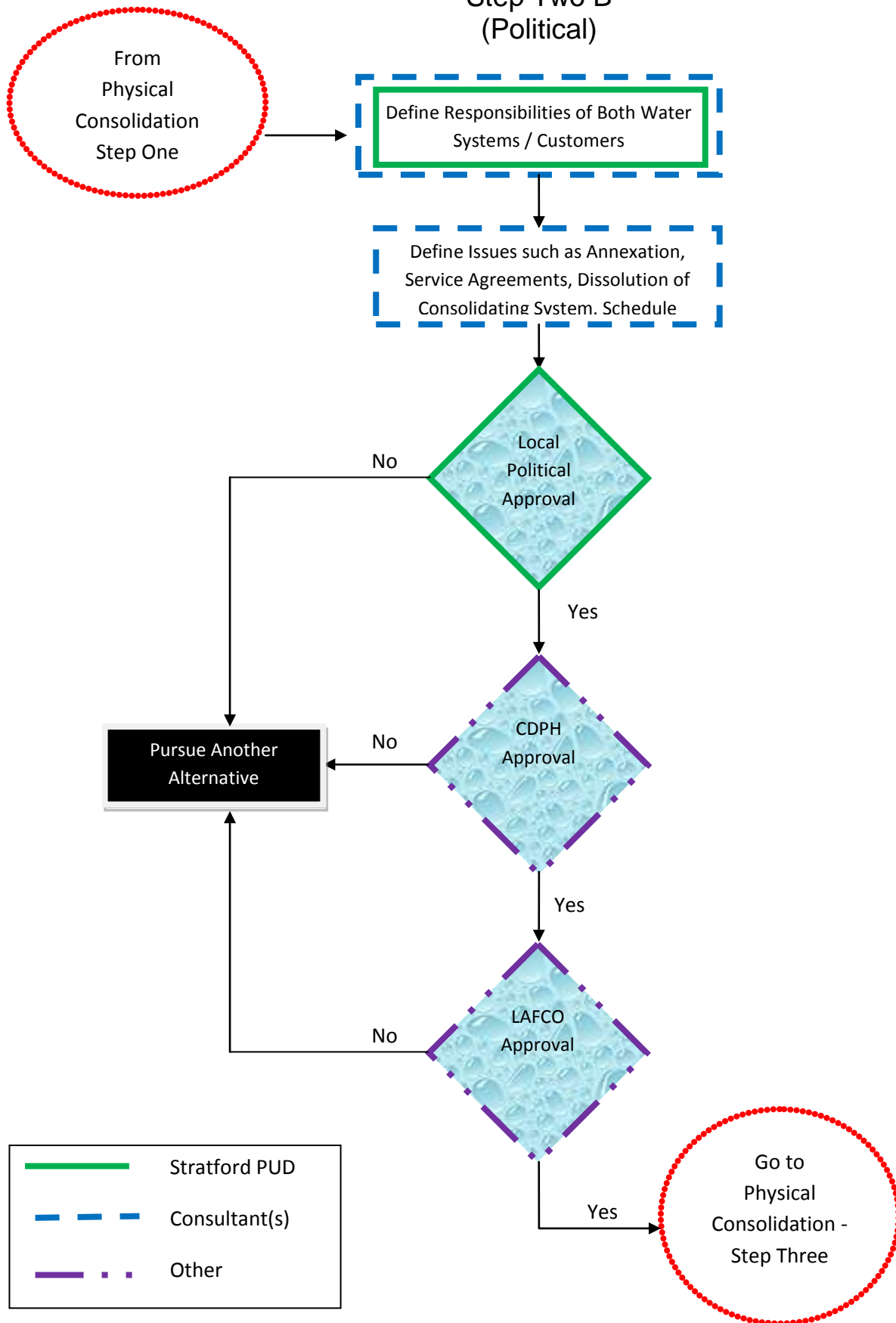
Step One



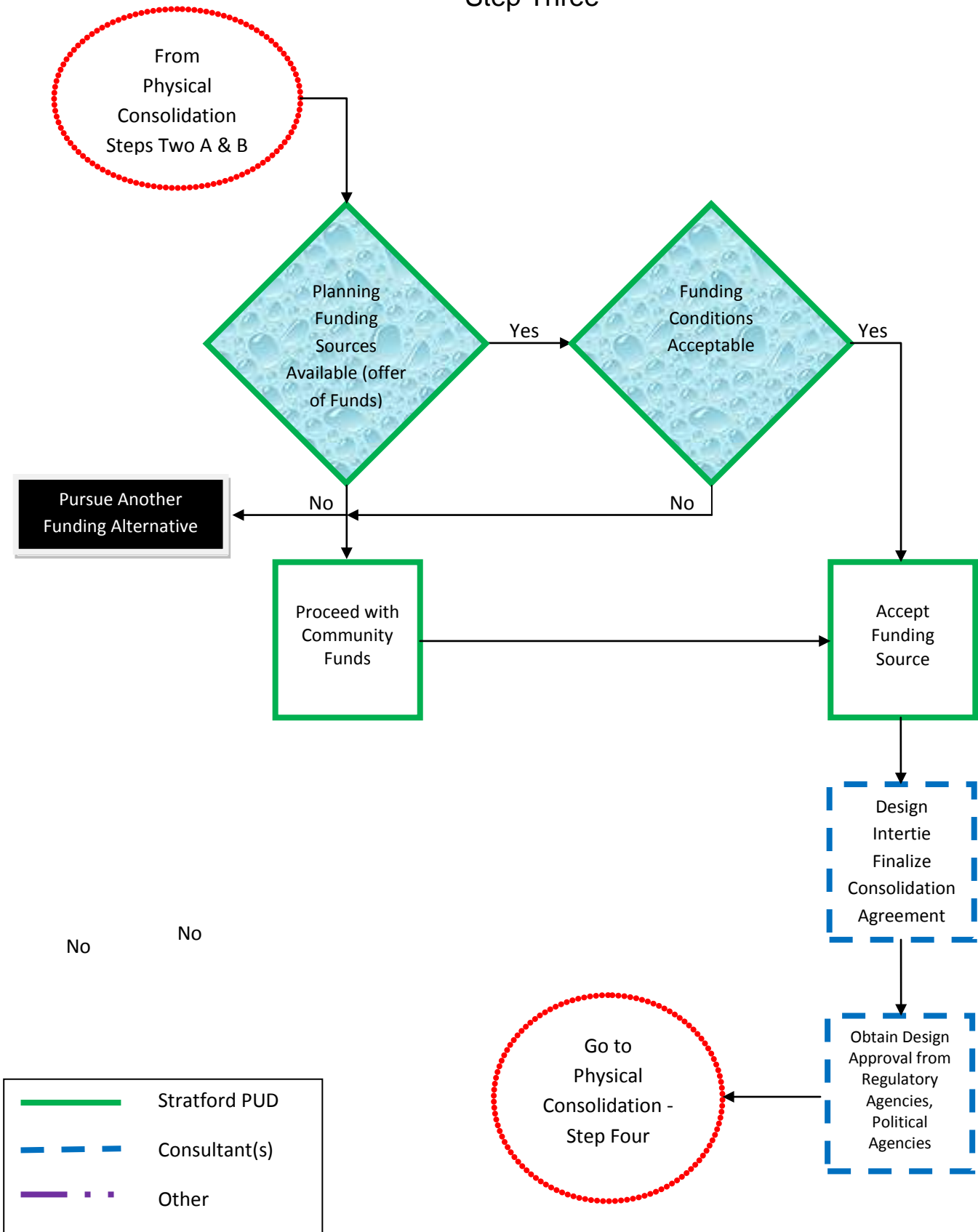
Stratford PUD
Physical Consolidation
Step Two A
(Technical)



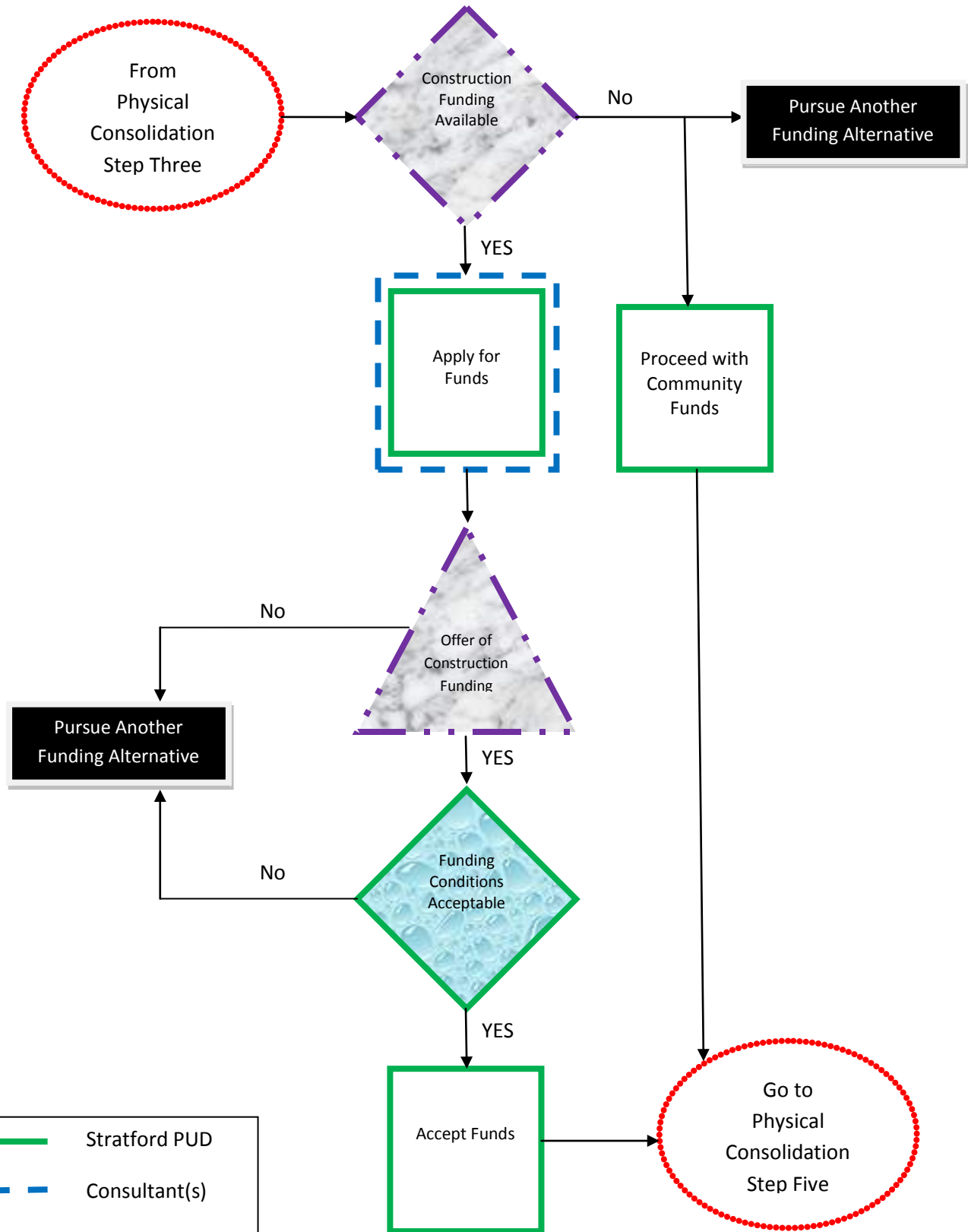
Stratford PUD
Physical Consolidation
Step Two B
(Political)



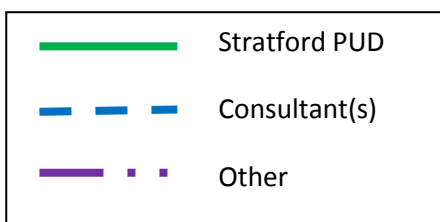
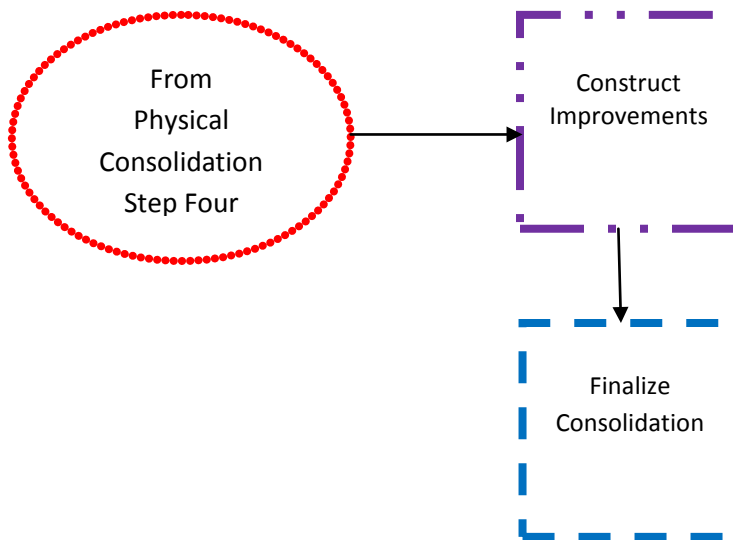
Stratford PUD Physical Consolidation Step Three



Stratford PUD
Physical Consolidation
Step Four



Stratford PUD
Physical Consolidation
Step Five

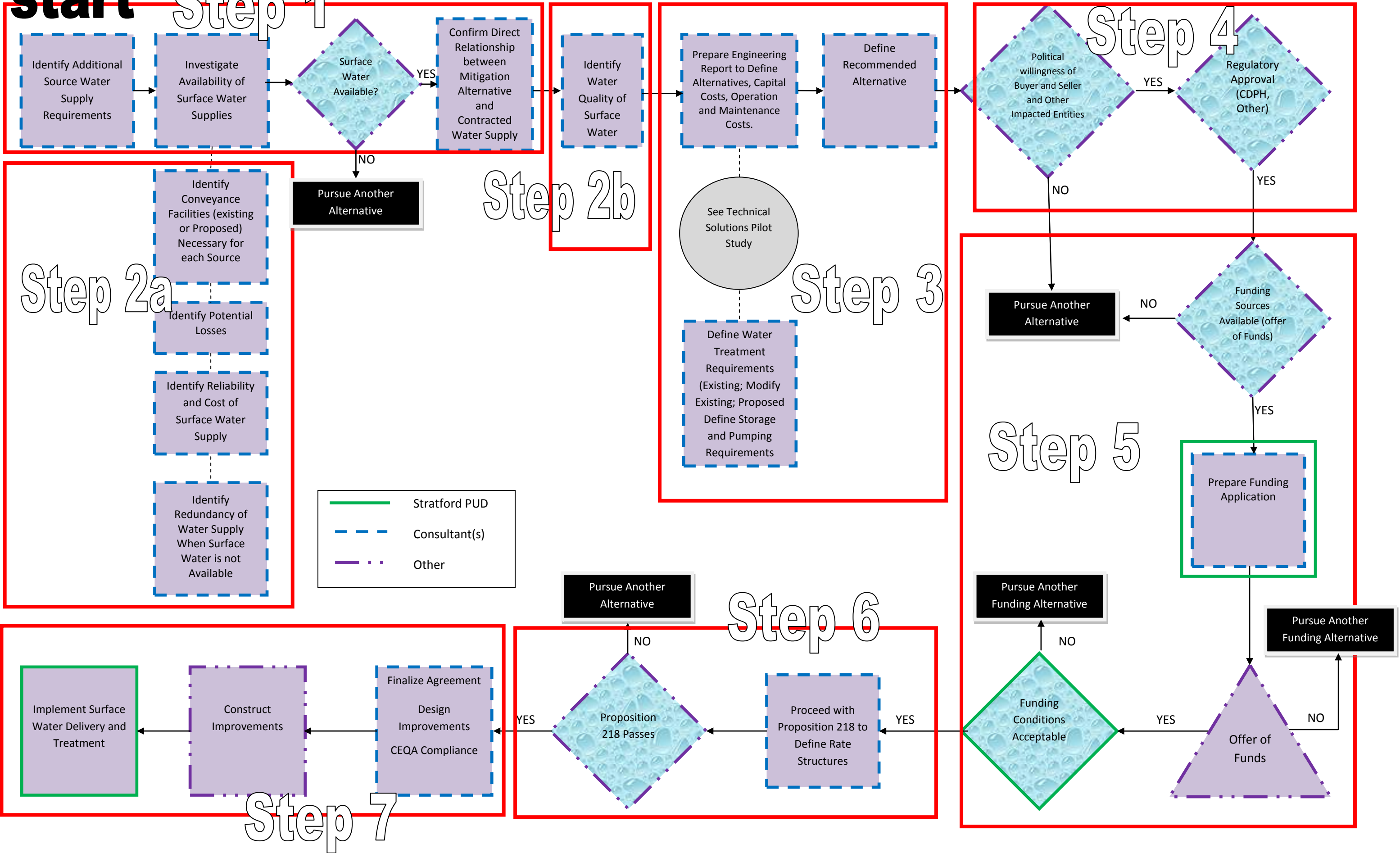


start

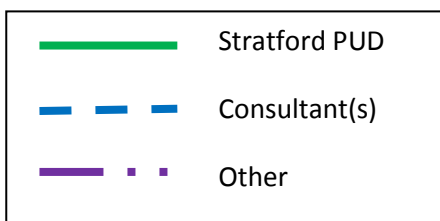
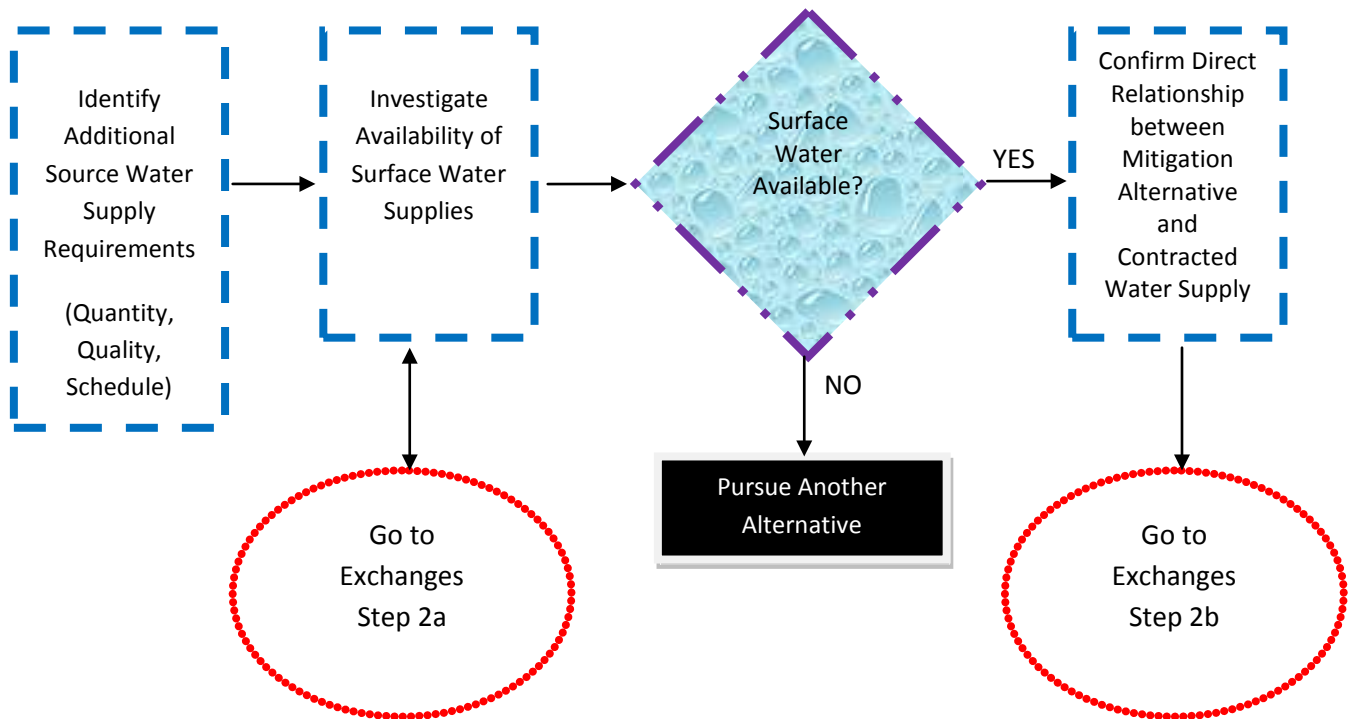
Step 1

Exchanges/Contracting for Surface Water

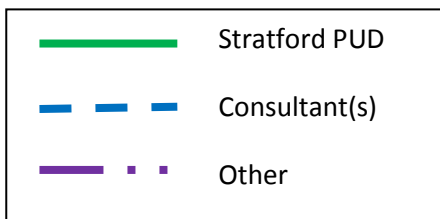
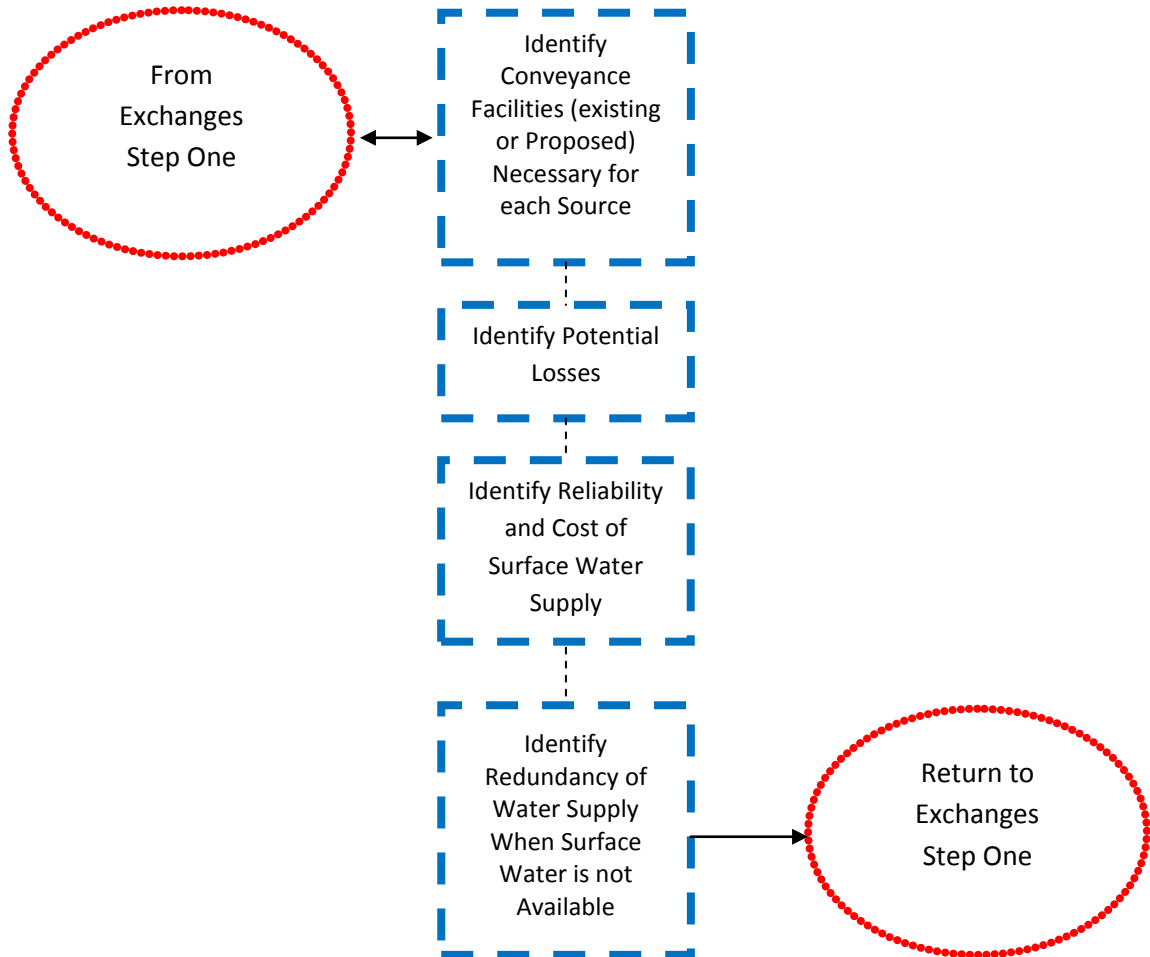
Stratford PUD



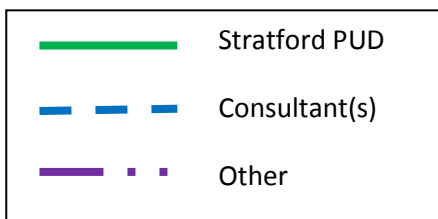
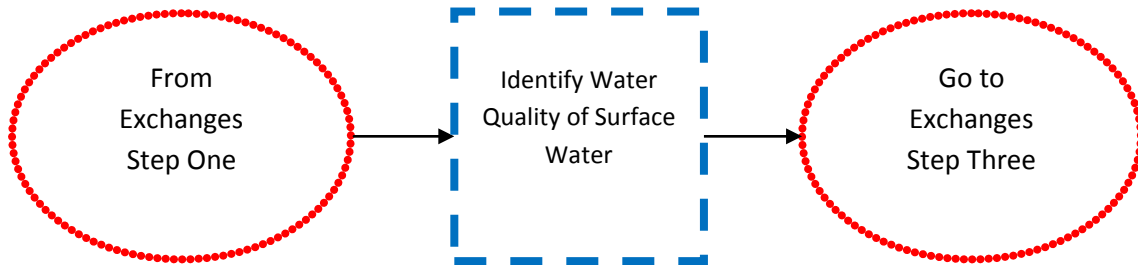
Stratford PUD
Exchanges/Contracting for Surface Water
Step One



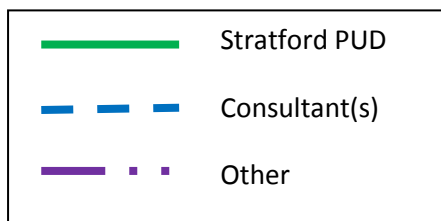
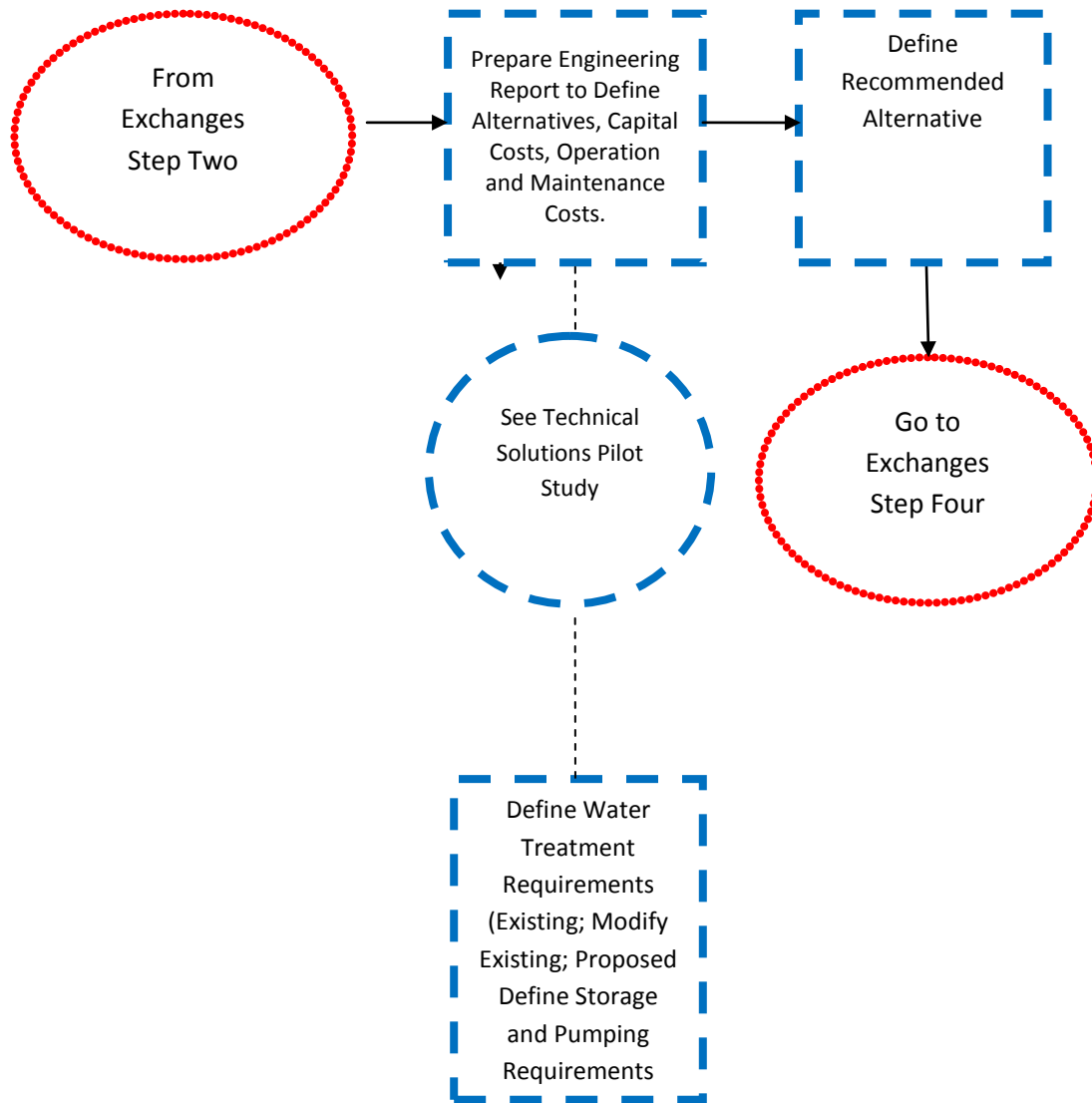
Stratford PUD
Exchanges/Contracting for Surface Water
Step Two a



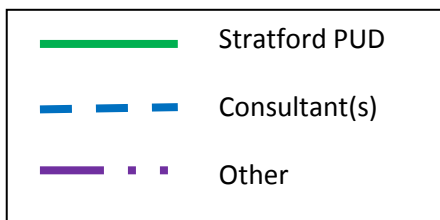
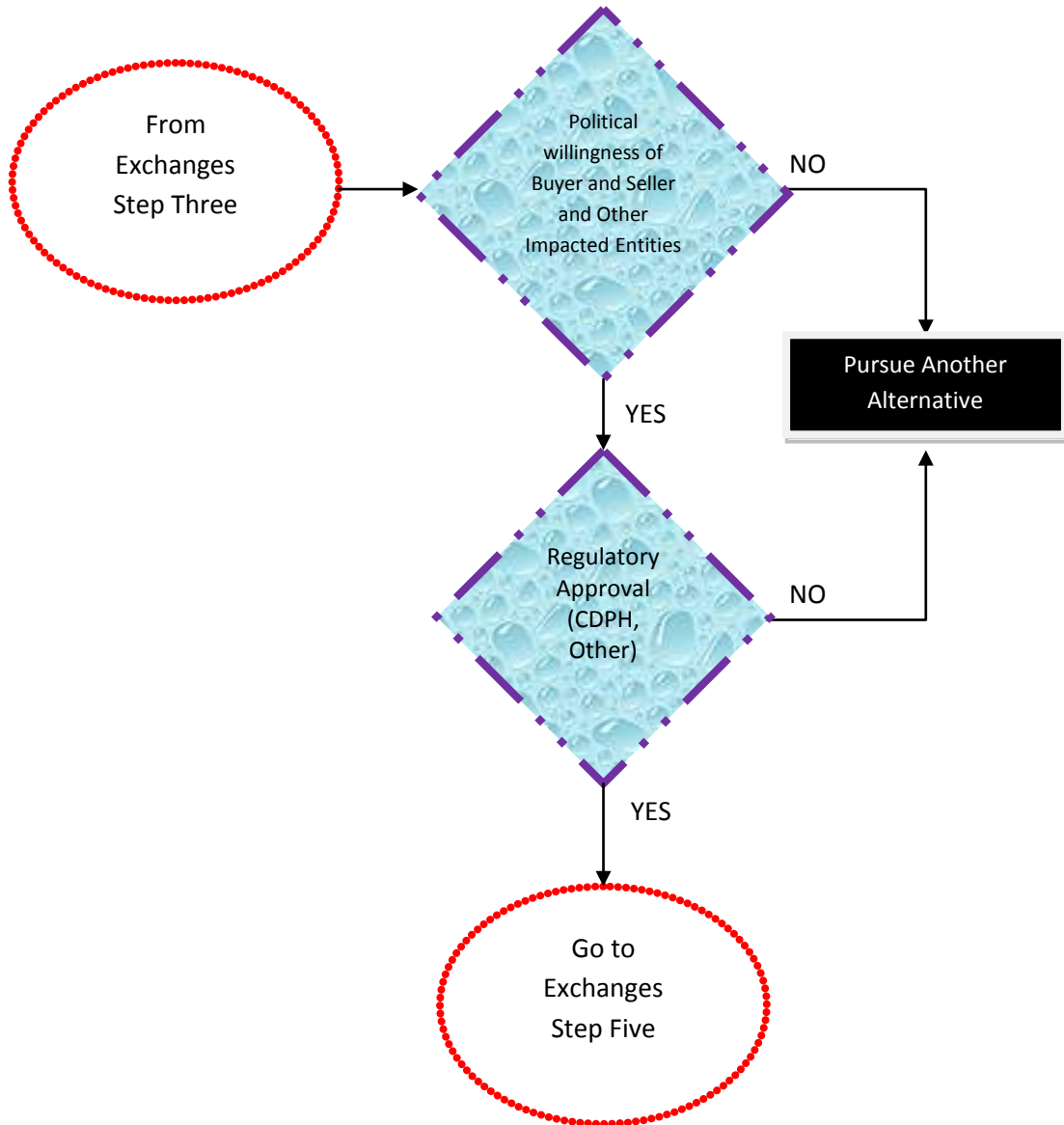
Stratford PUD
Exchanges/Contracting for Surface Water
Step Two b



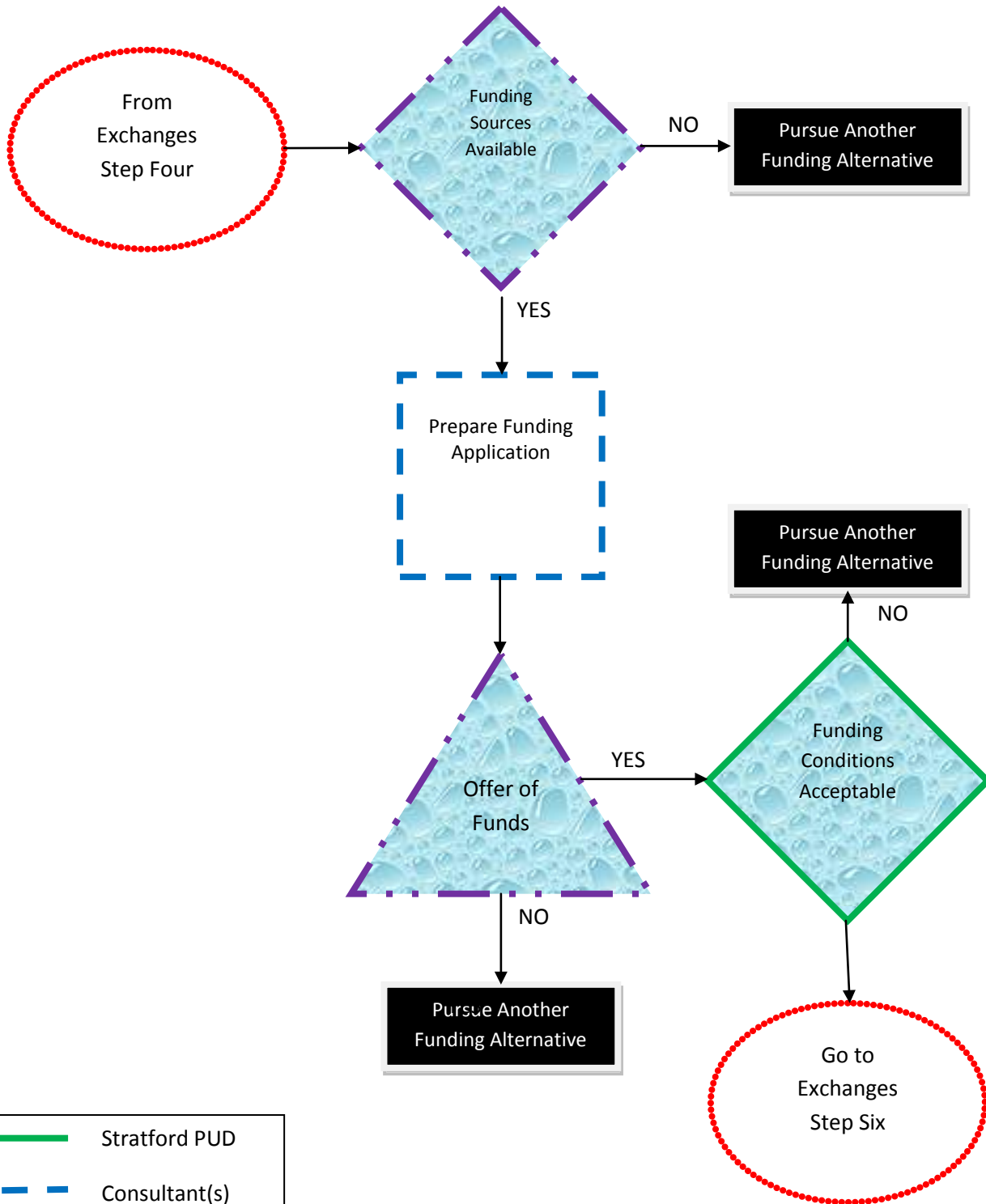
Stratford PUD
Exchanges/Contracting for Surface Water
Step Three



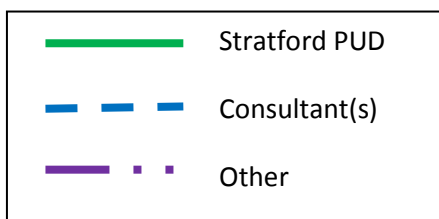
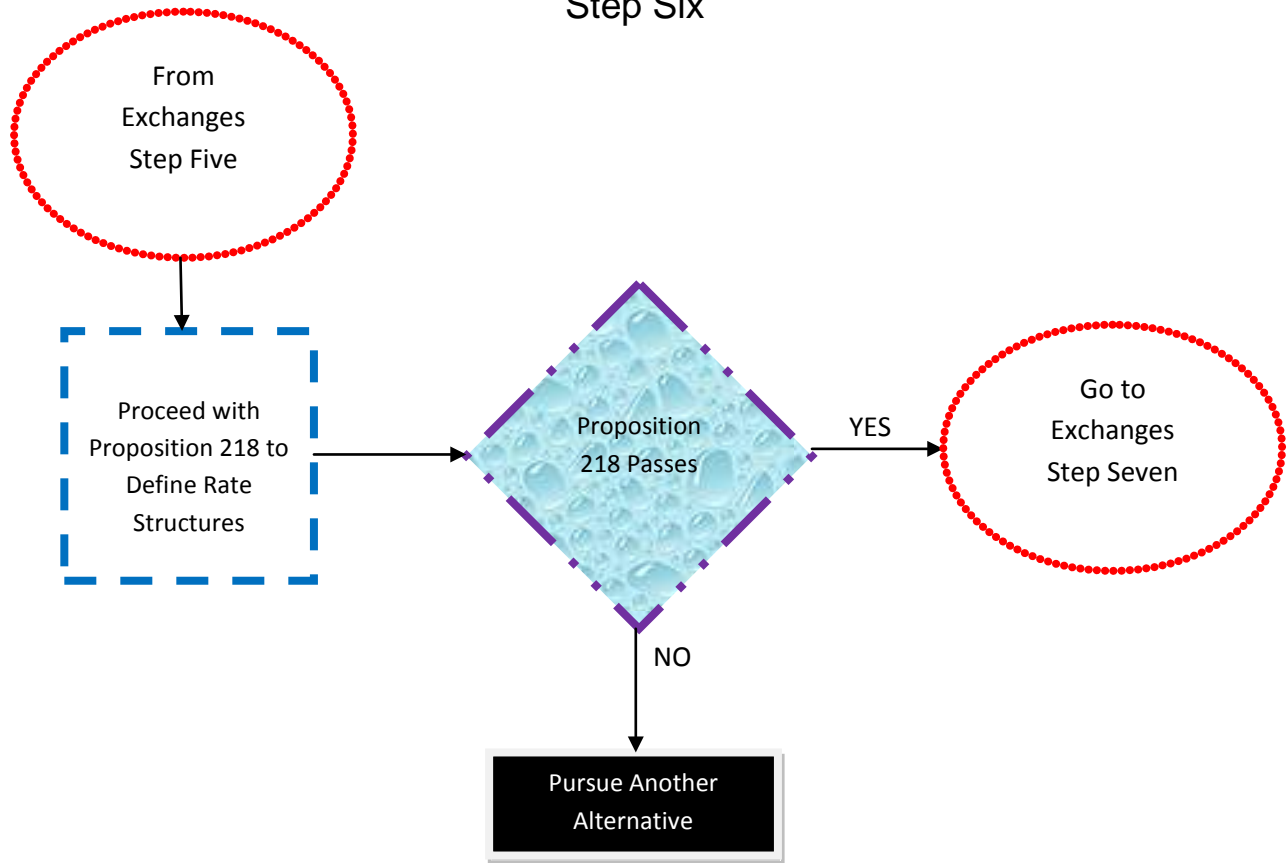
Stratford PUD
Exchanges/Contracting for Surface Water
Step Four



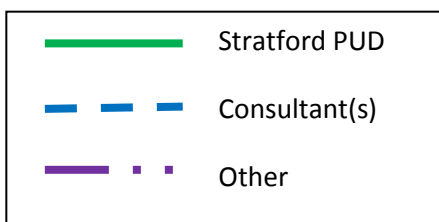
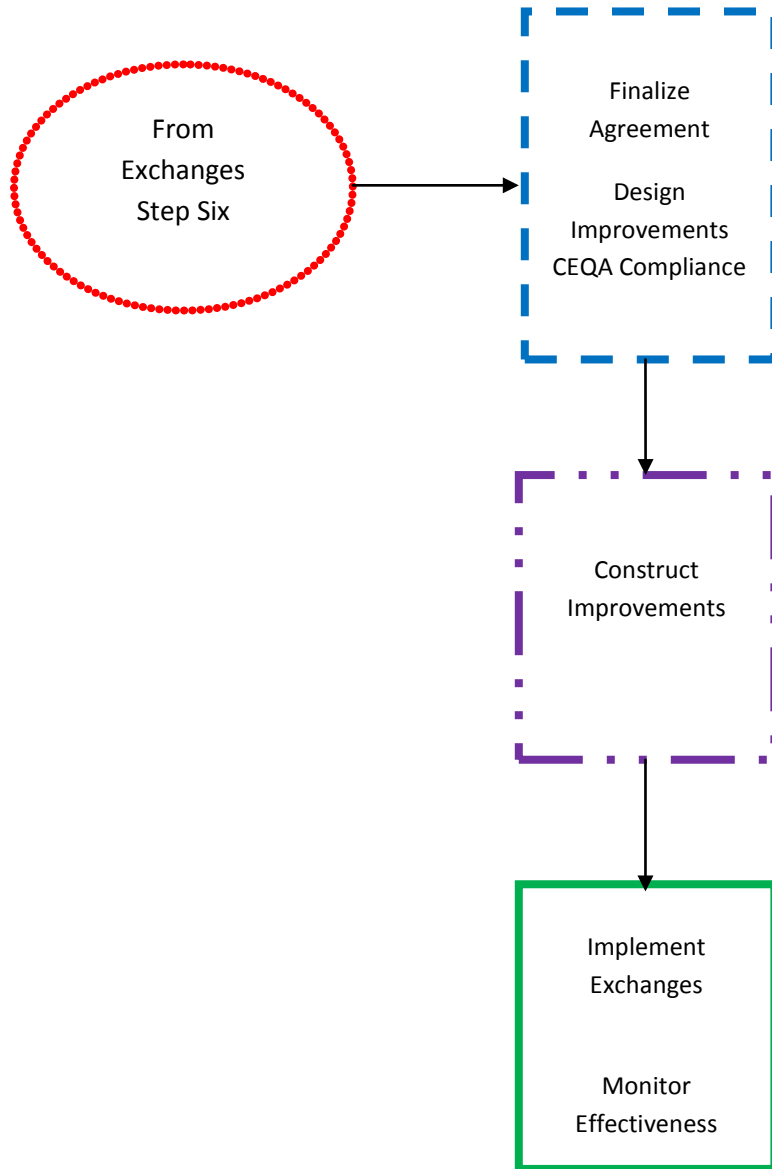
Stratford PUD
Exchanges/Contracting for Surface Water
Step Five



Stratford PUD
Exchanges/Contracting for Surface Water
Step Six



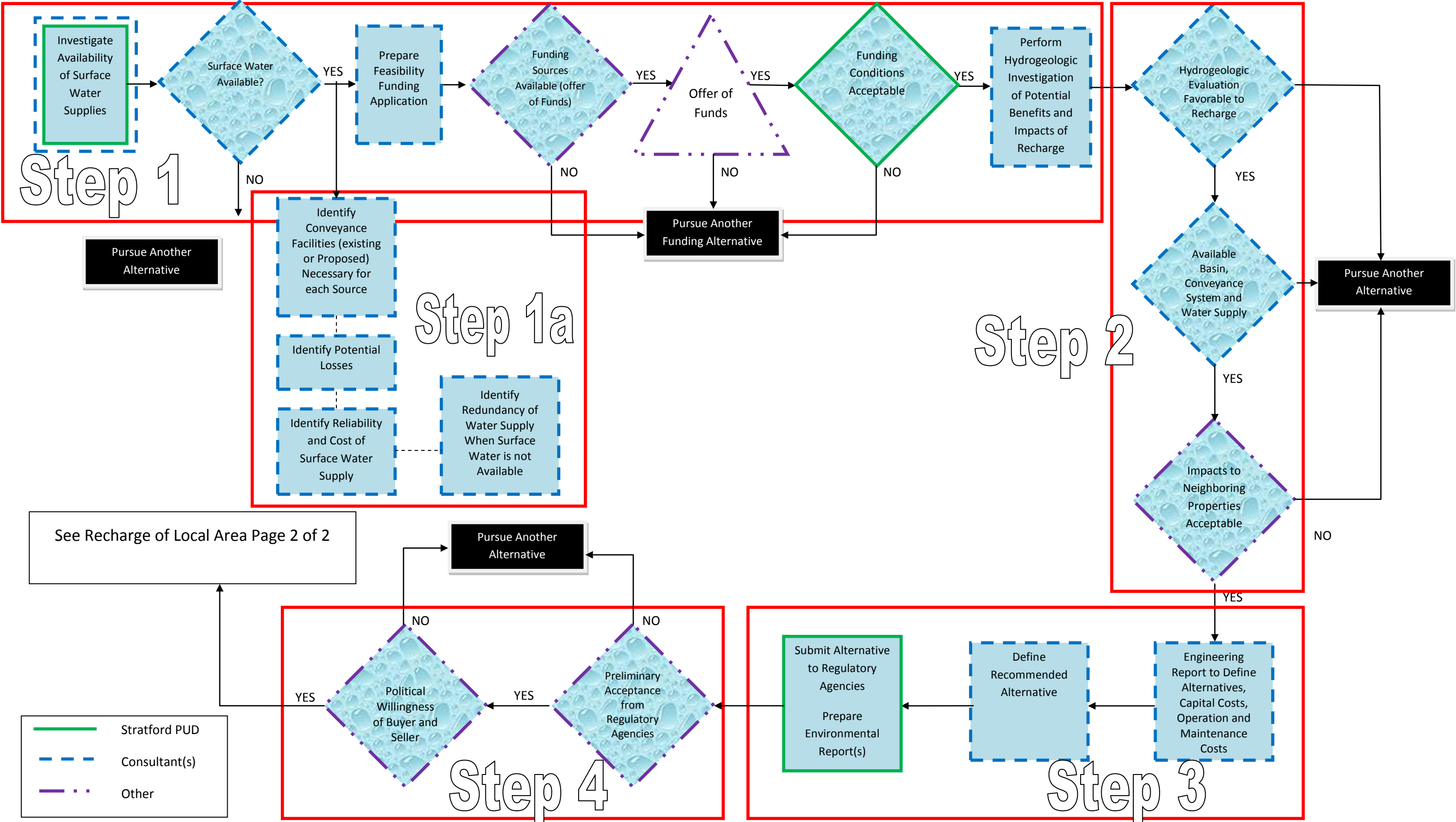
Stratford PUD
Exchanges/Contracting for Surface Water
Step Seven



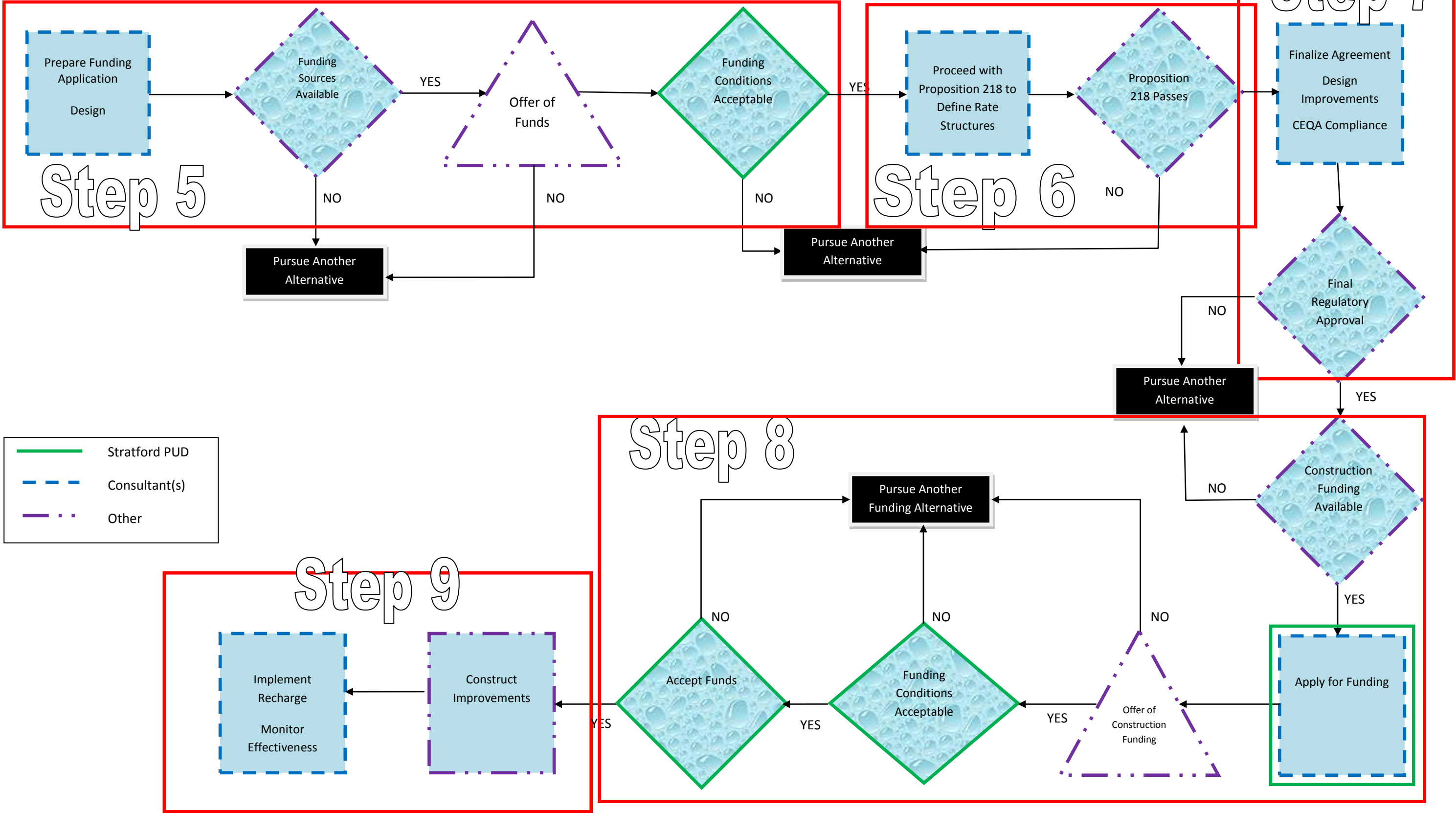
start

Recharge of Local Area

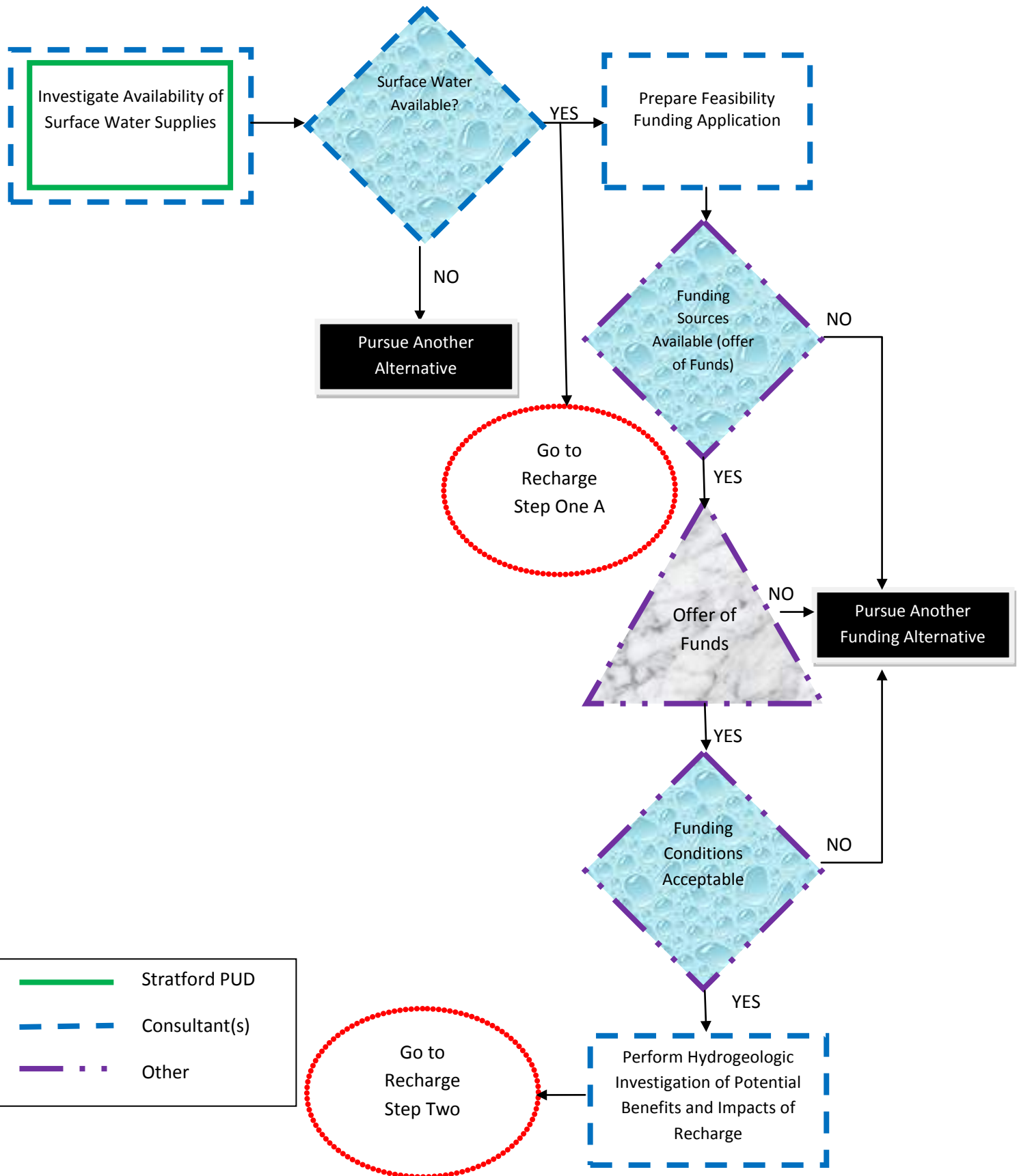
Stratford PUD



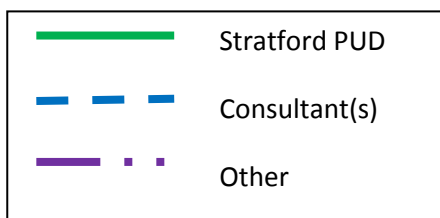
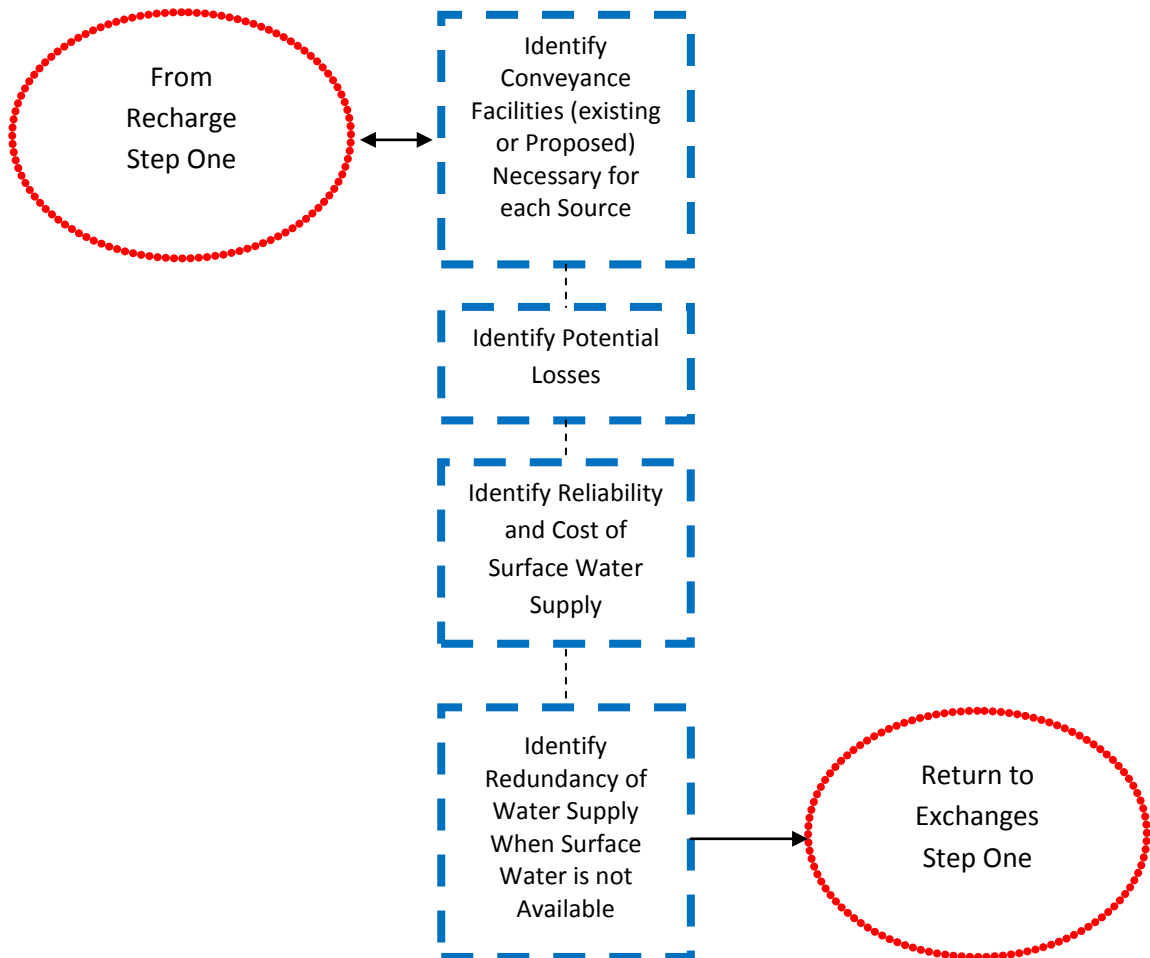
See Recharge of Local Area Page 1 of 2



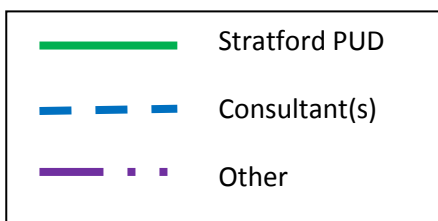
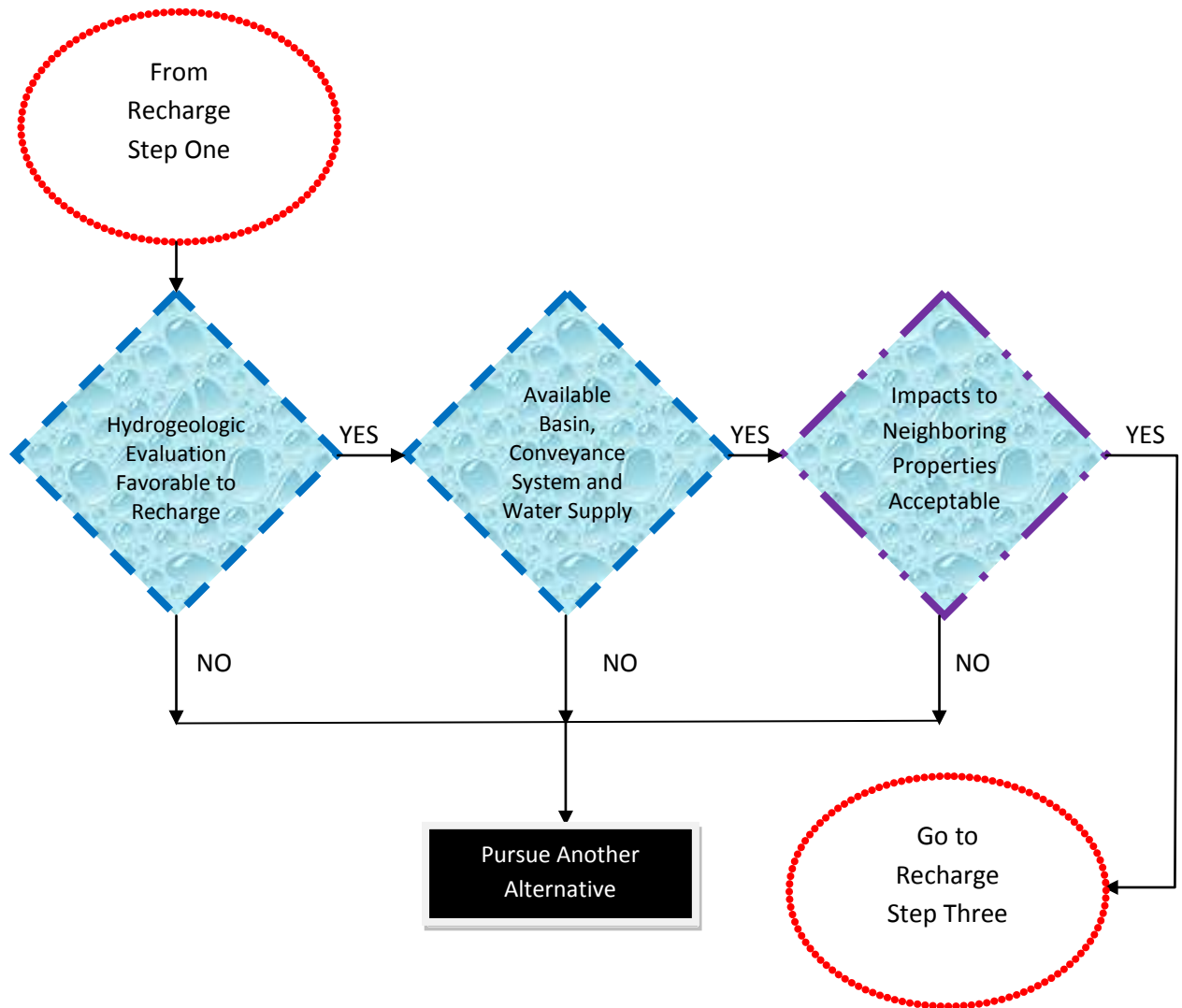
Stratford PUD
Recharge of Local Area
Step One



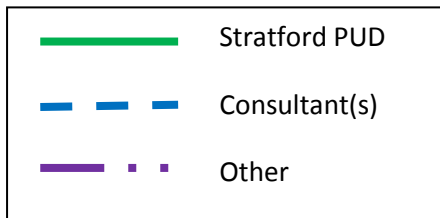
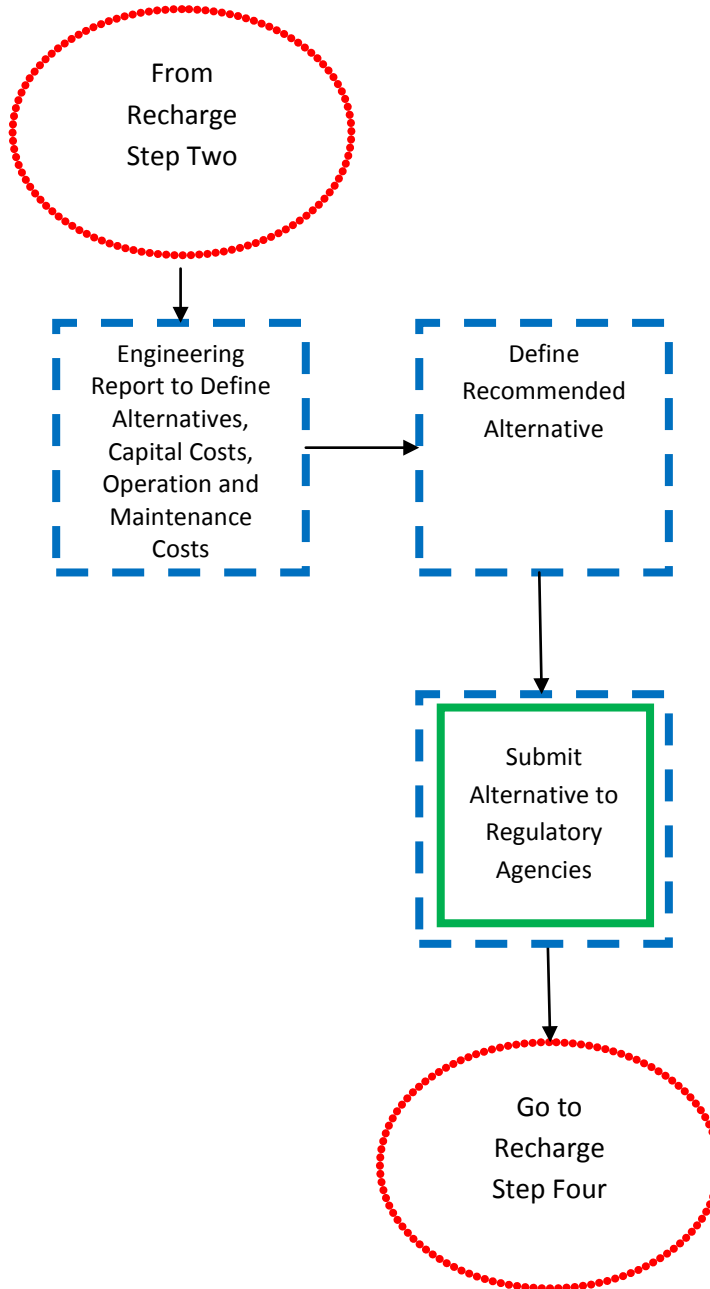
Stratford PUD
Recharge of Local Area
Step 1A



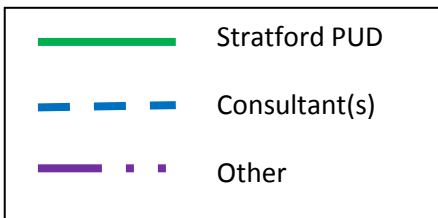
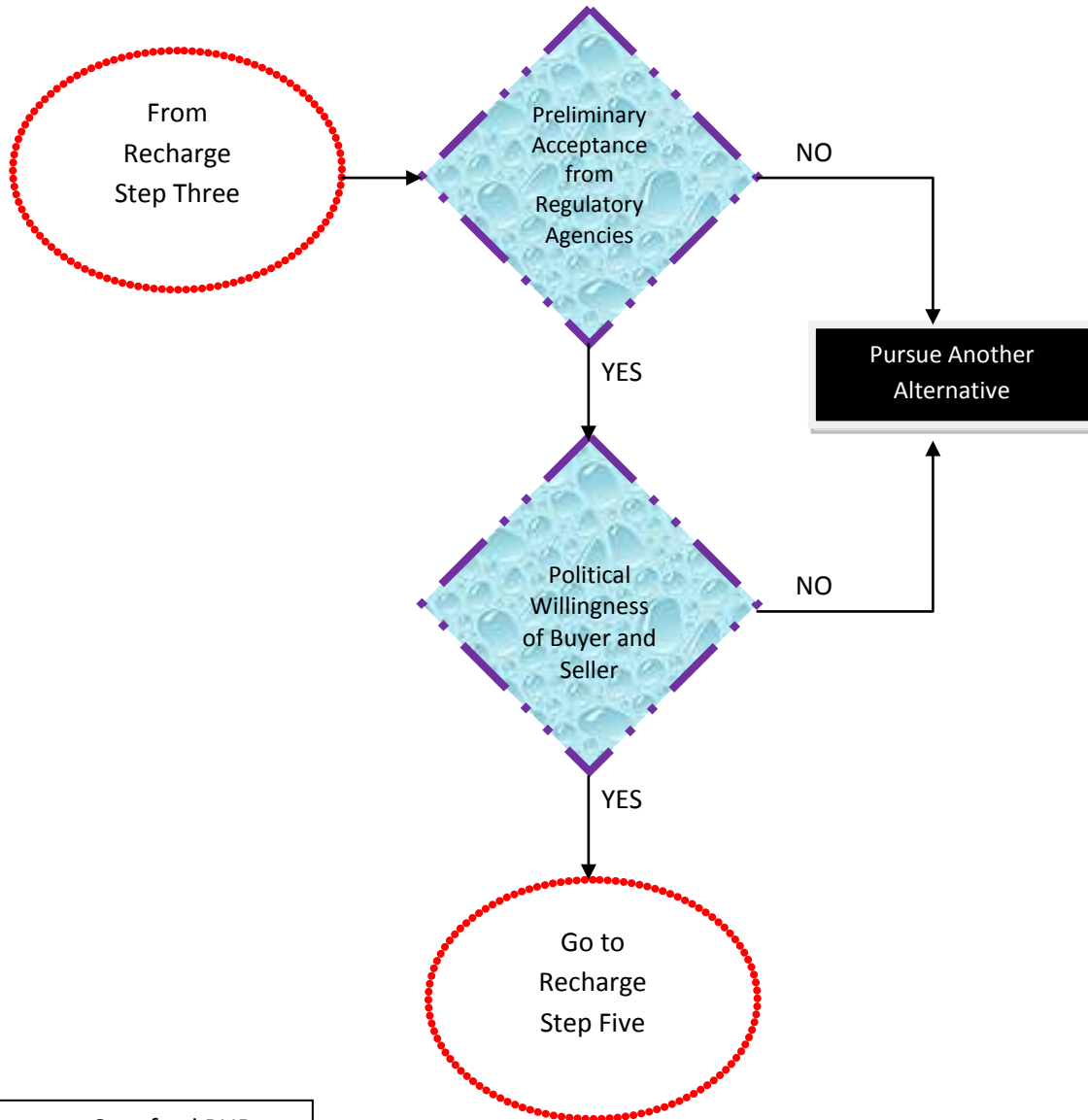
Stratford PUD
Recharge of Local Area
Step Two



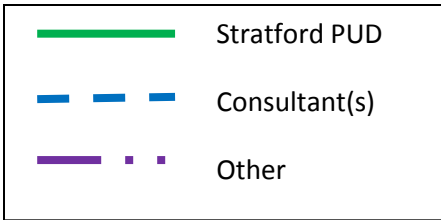
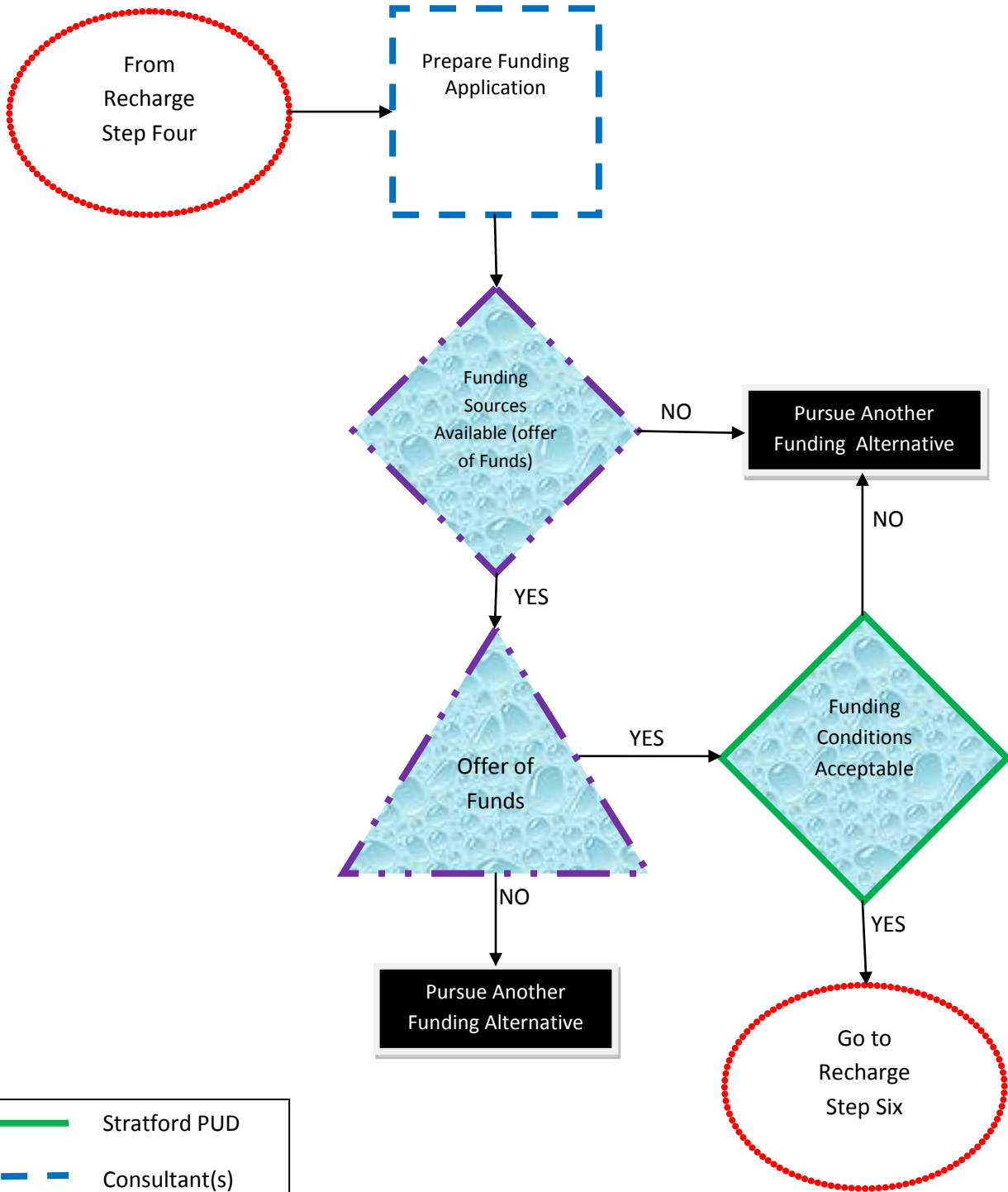
Stratford PUD
Recharge of Local Area
Step Three



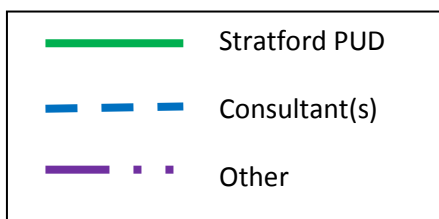
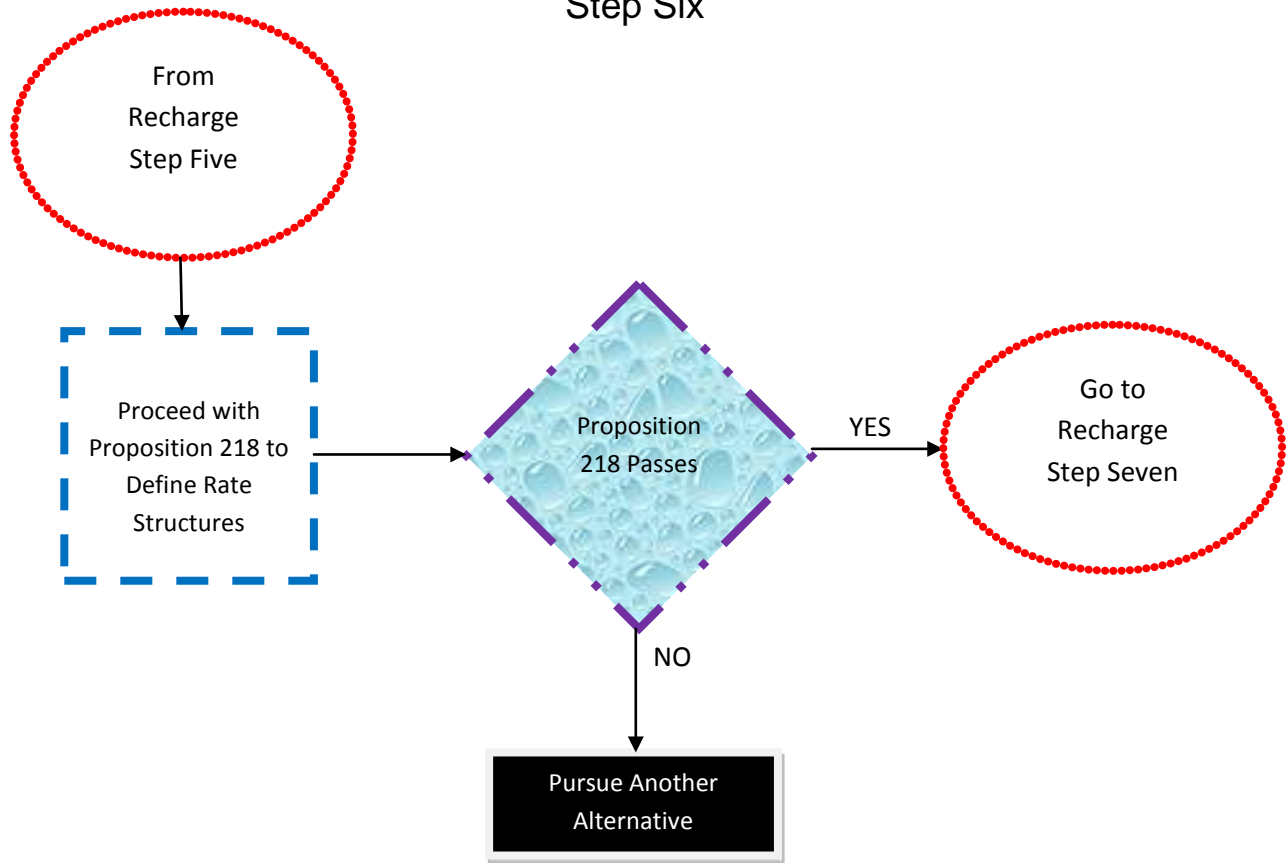
Stratford PUD
Recharge of Local Area
Step Four



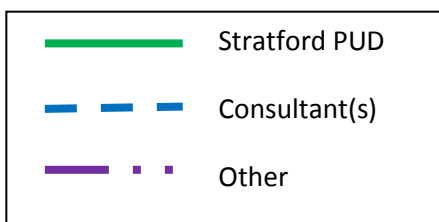
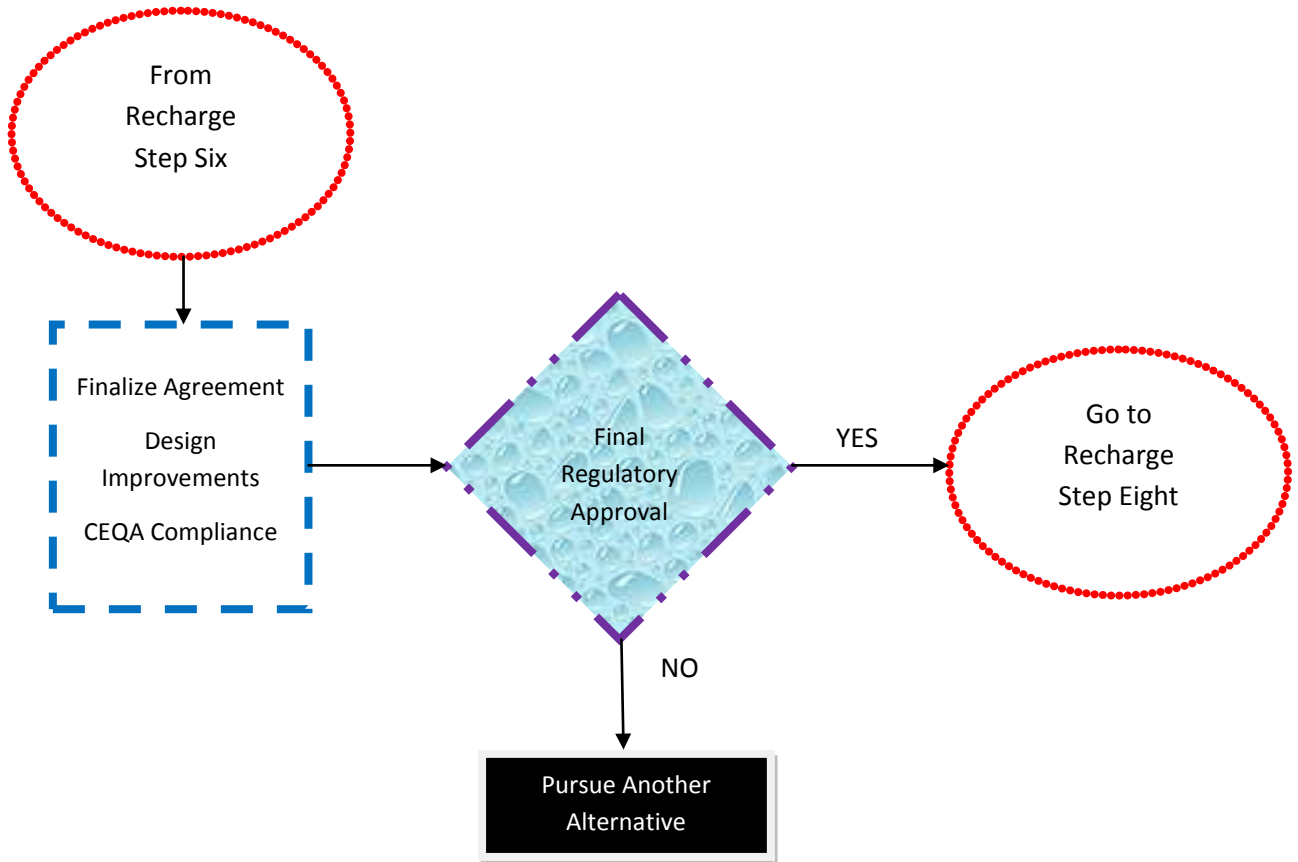
Stratford PUD
Recharge of Local Area
Step Five



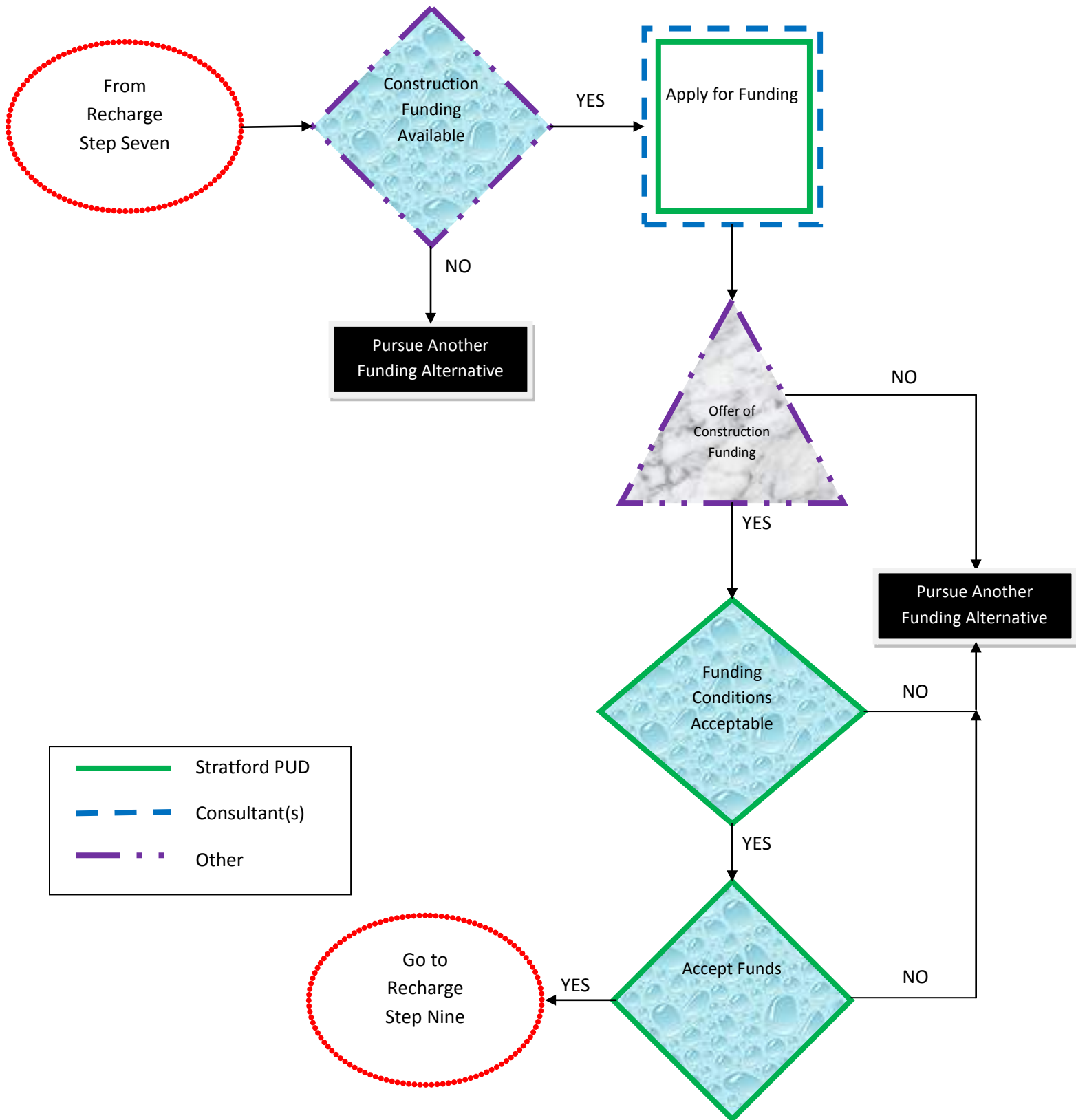
Stratford PUD
Recharge of Local Area
Step Six



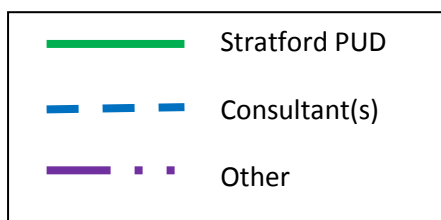
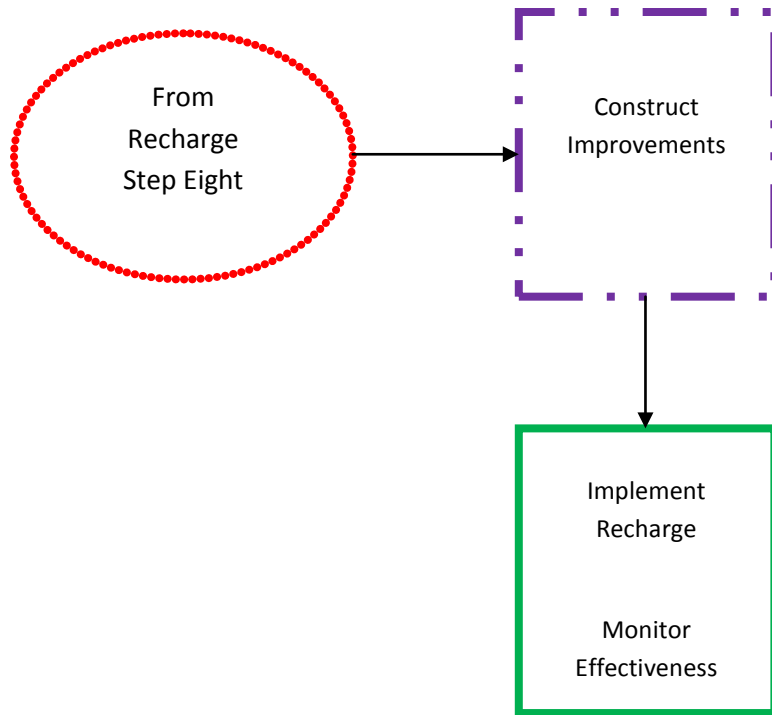
Stratford PUD
Recharge of Local Area
Step Seven



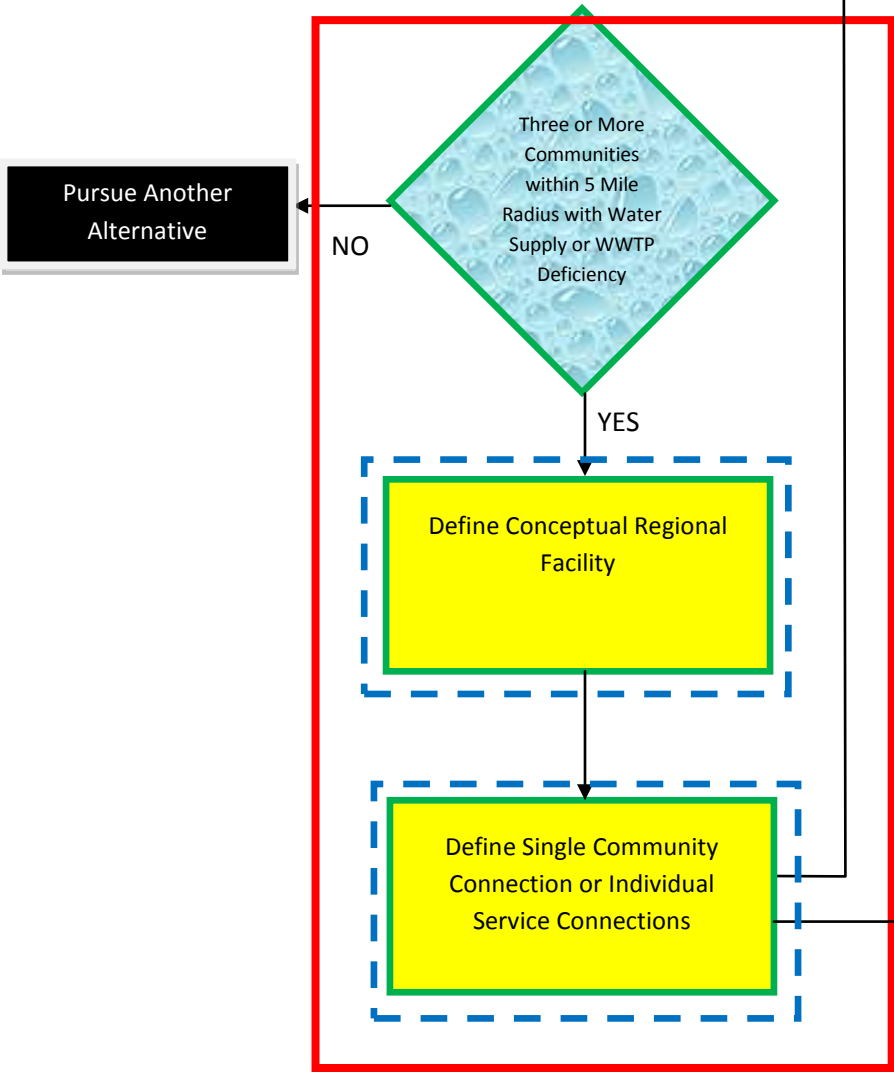
Stratford PUD
Recharge of Local Area
Step Eight



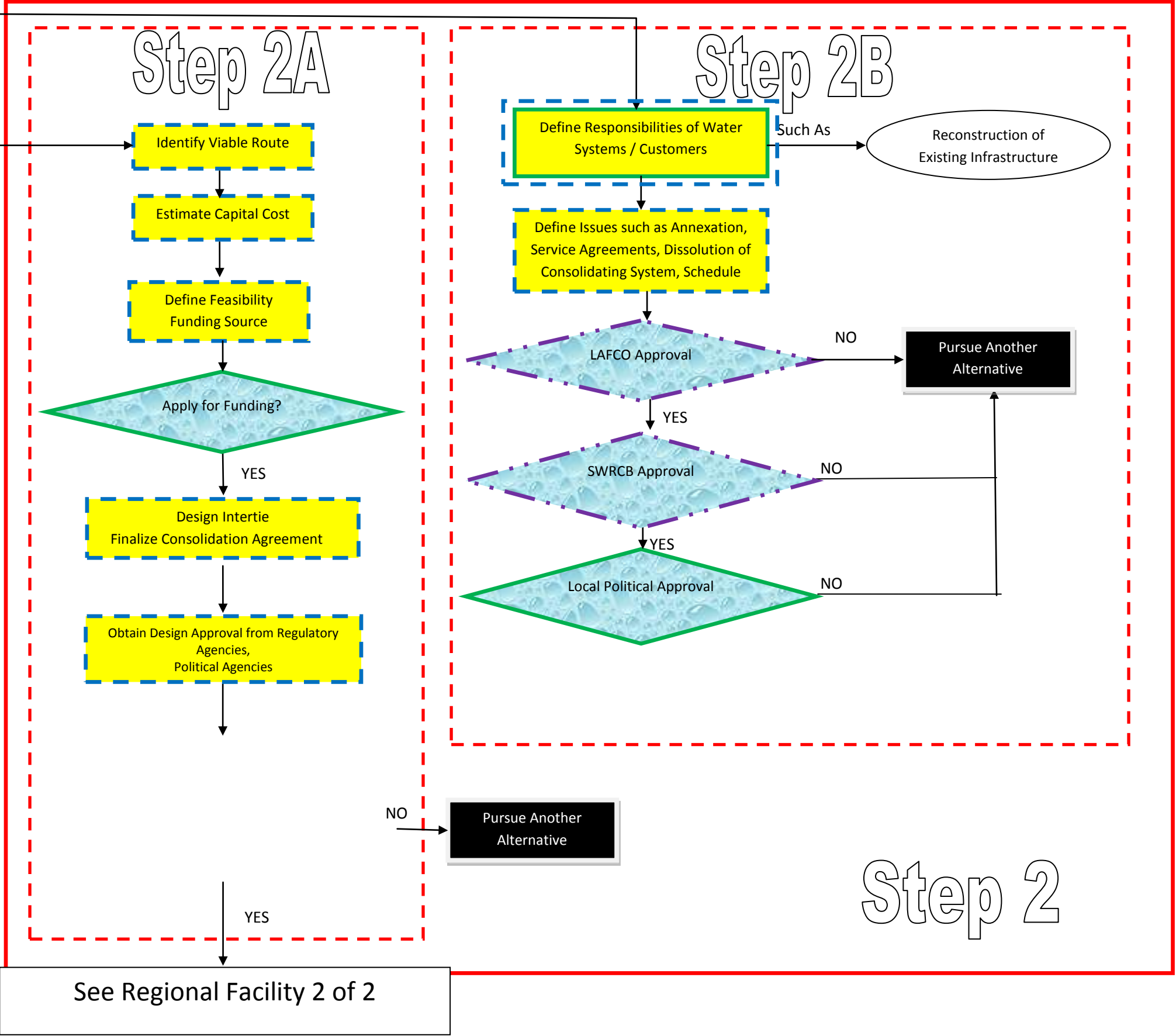
Stratford PUD
Recharge of Local Area
Step Nine



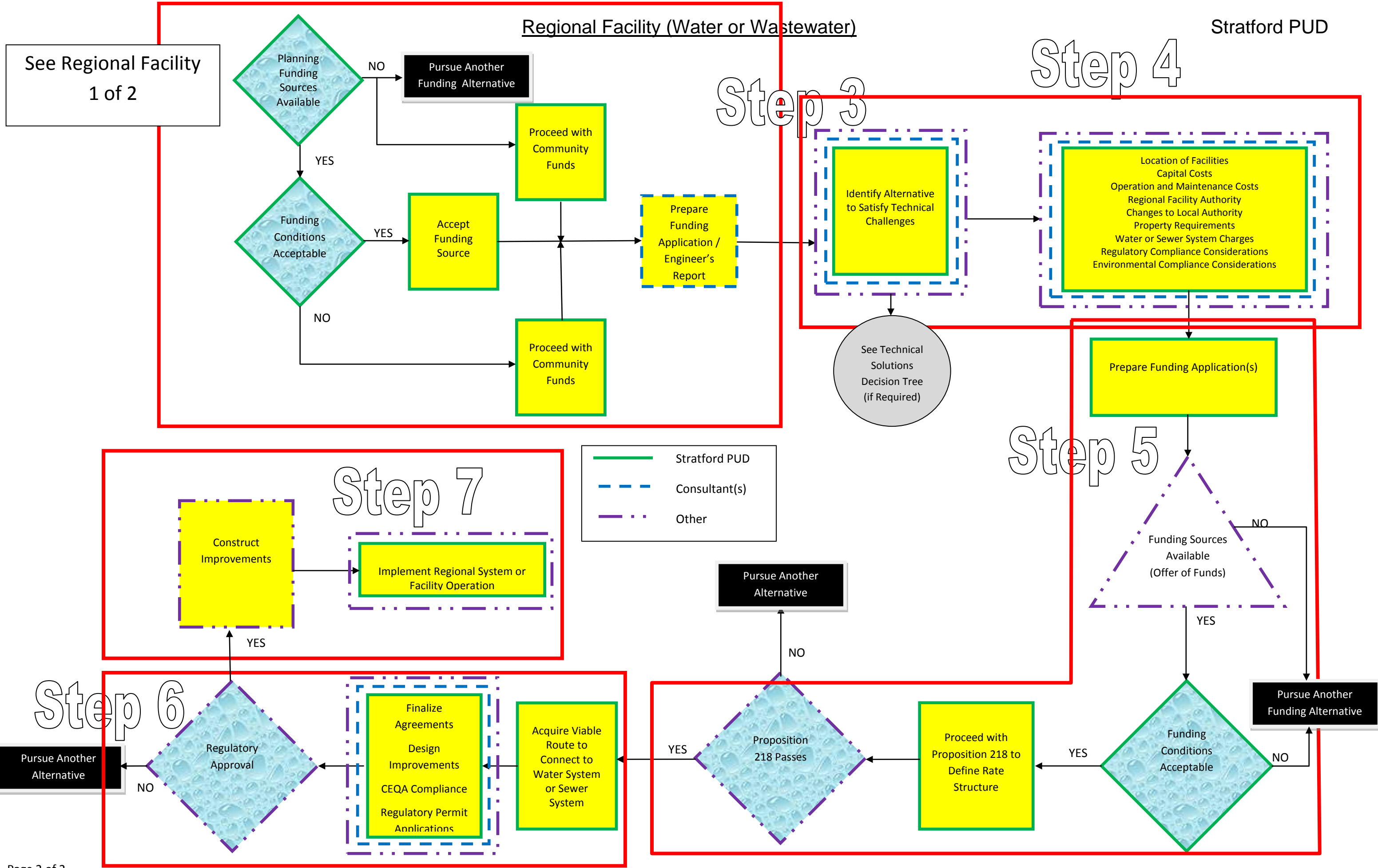
start



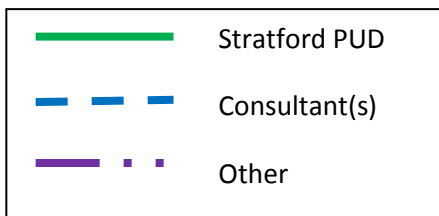
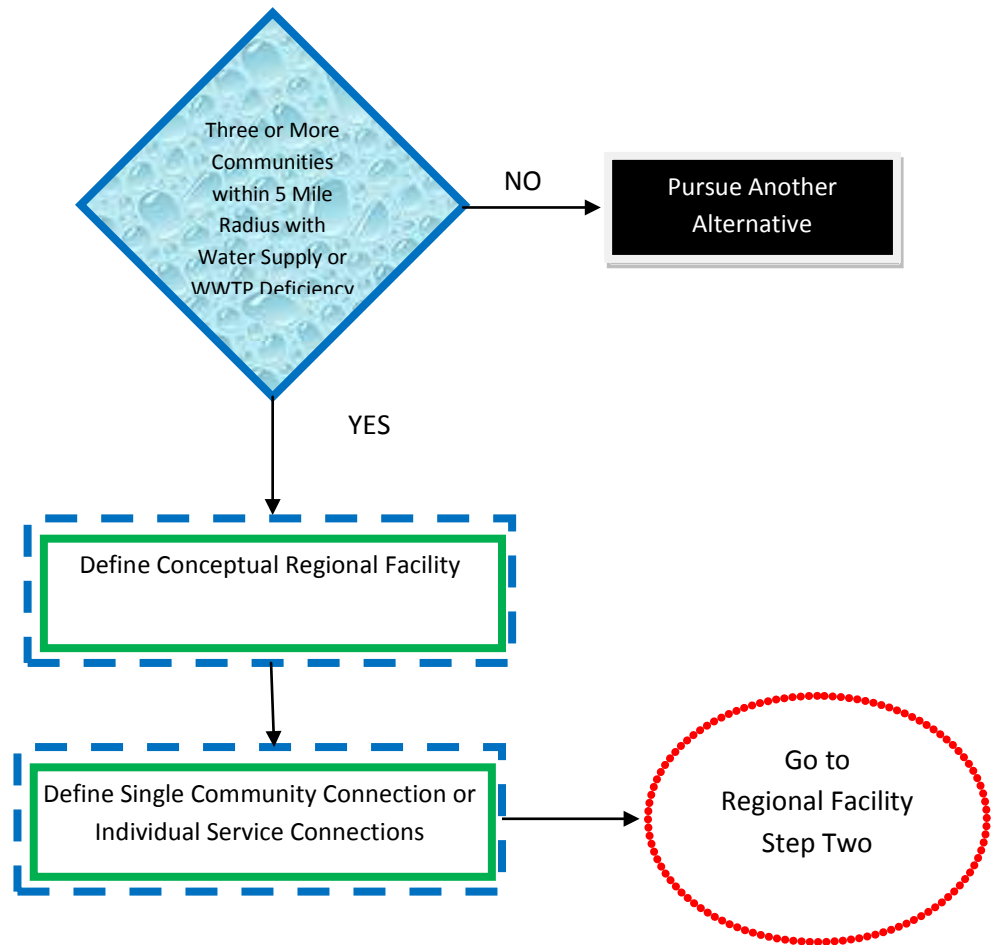
Step 1



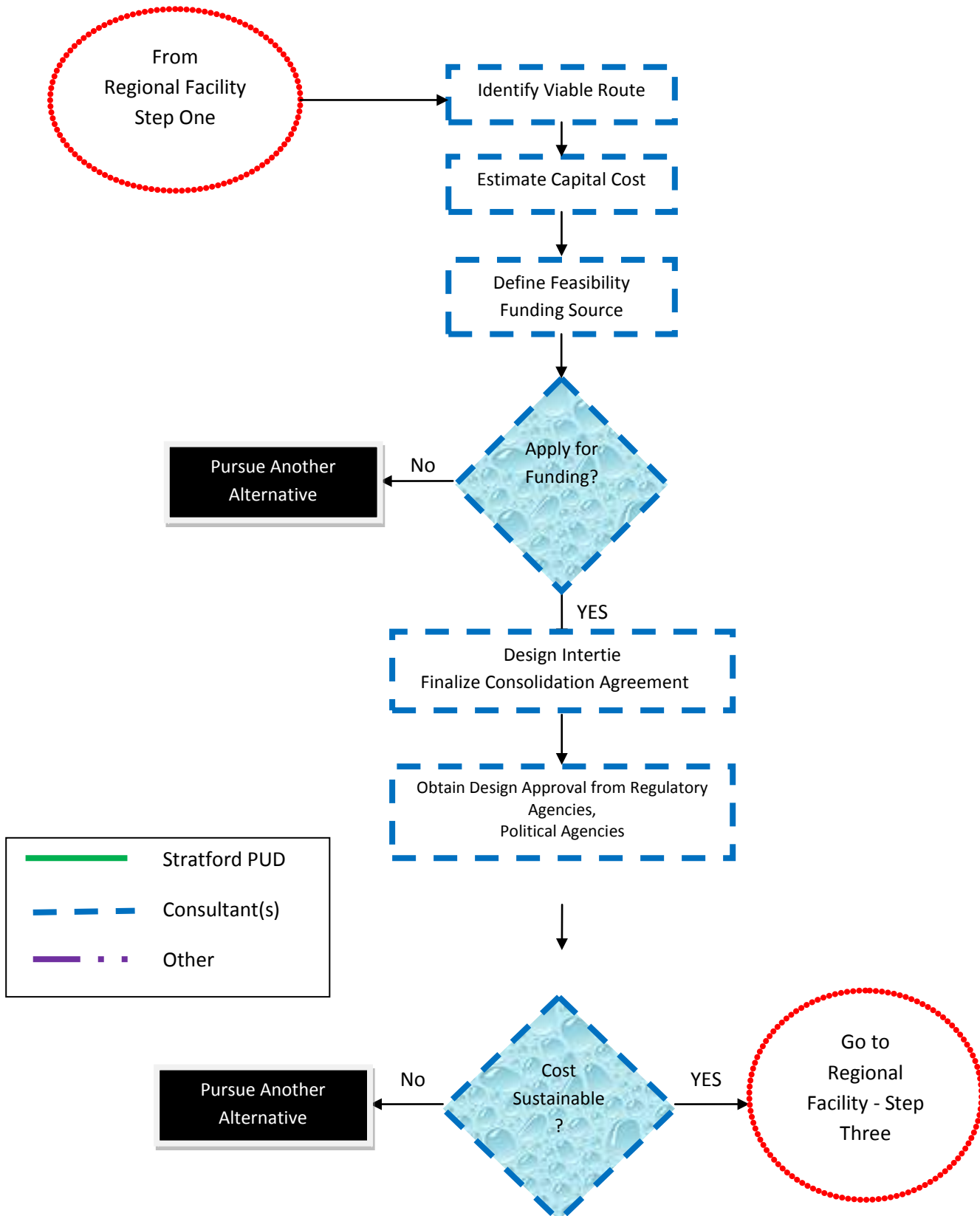
Step 2



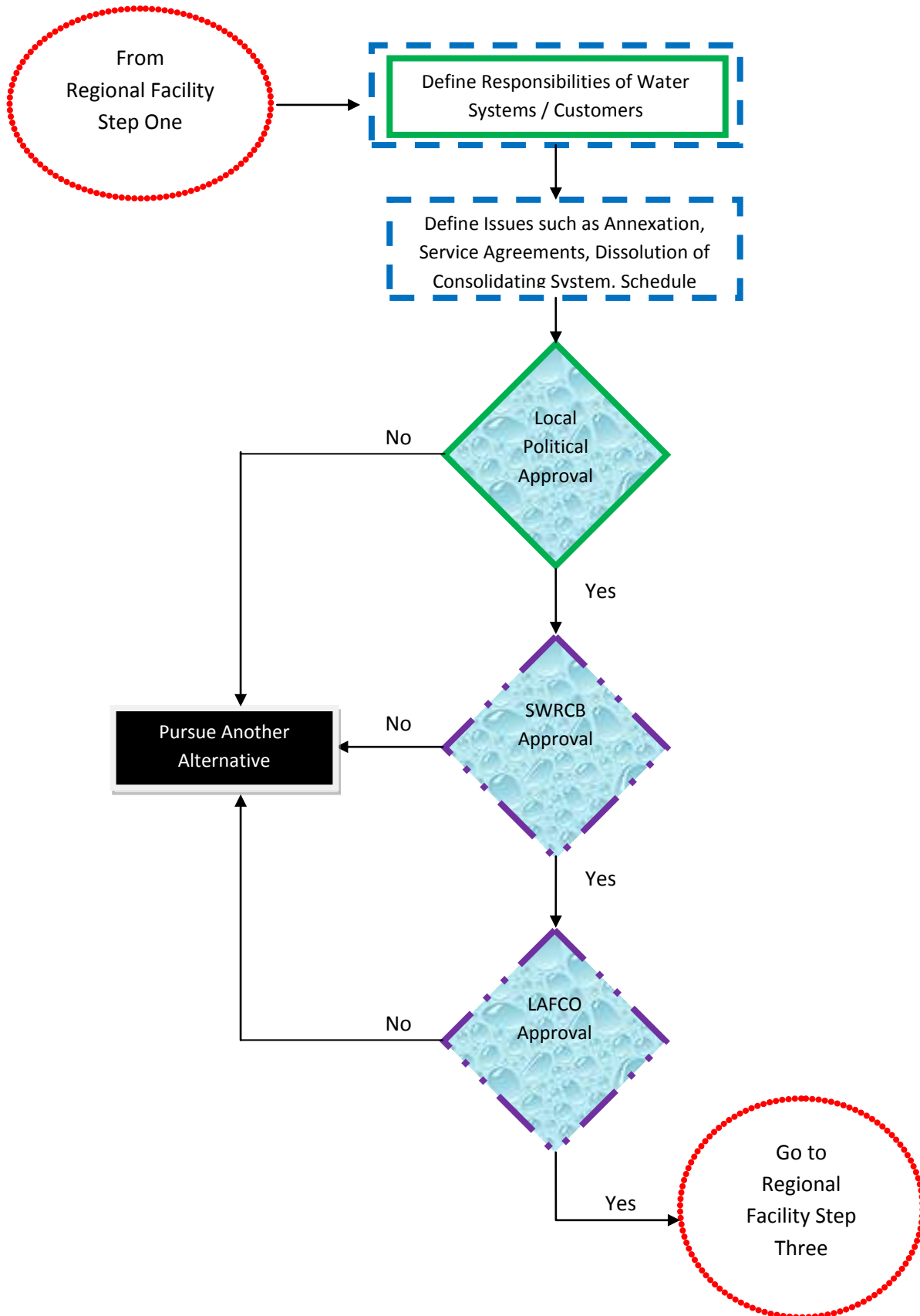
Stratford PUD
Regional Facility (Water or Wastewater)
Step One



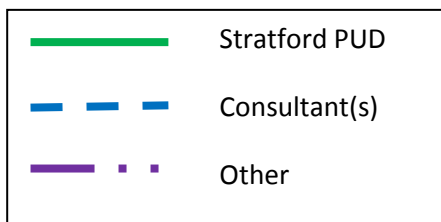
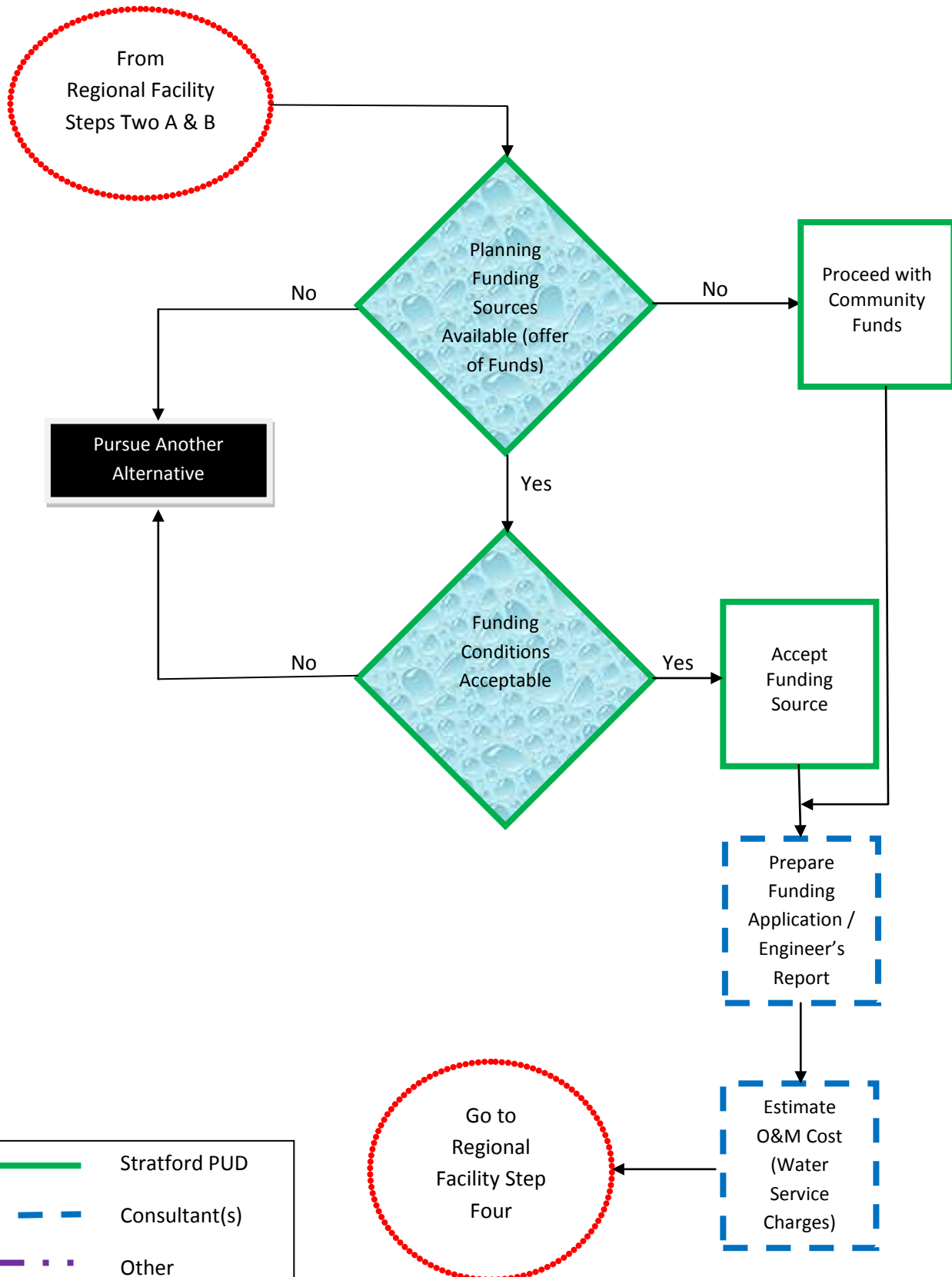
Stratford PUD
Regional Facility (Water or Wastewater)
Step Two A
(Technical)



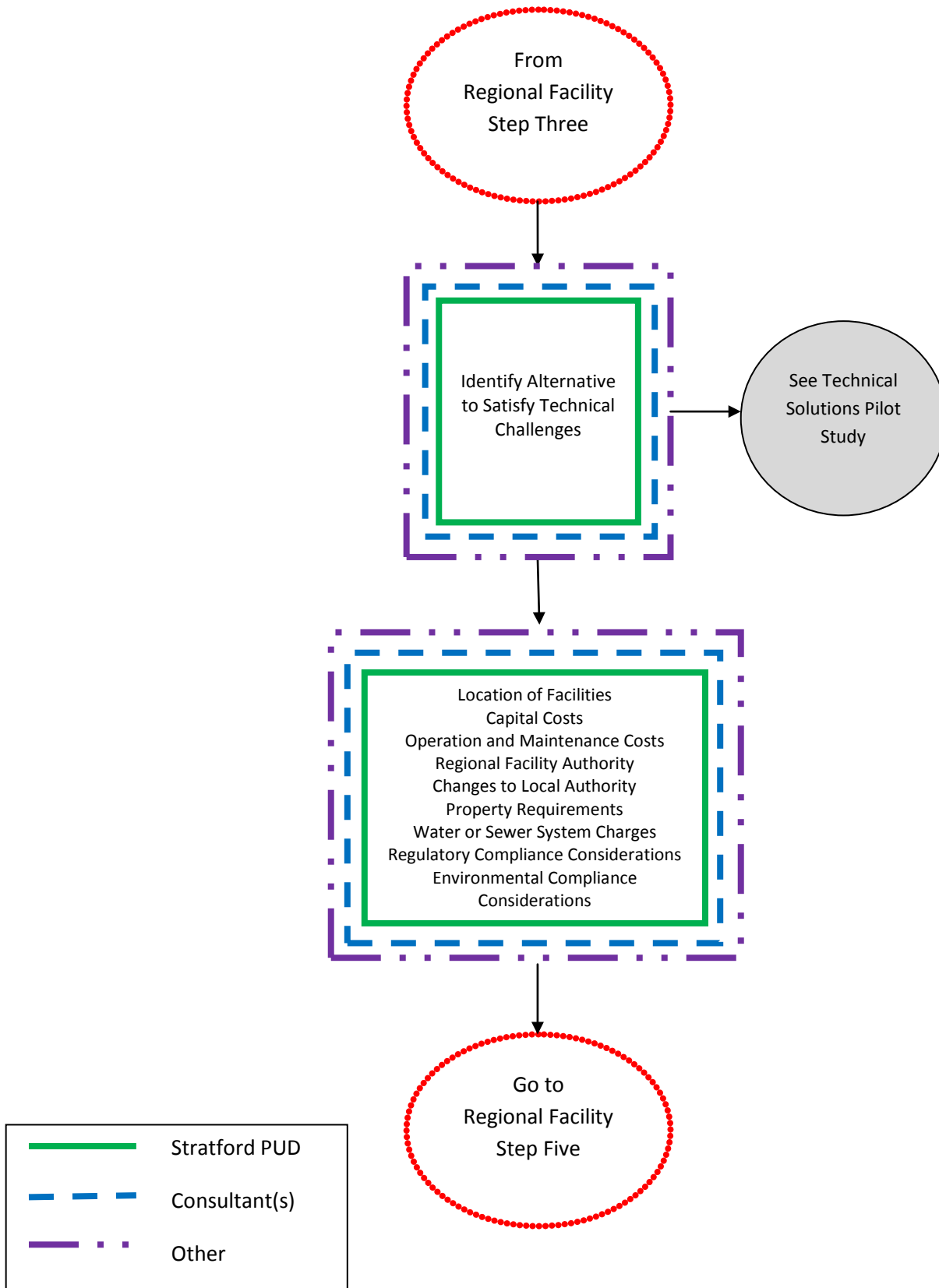
Stratford PUD
Regional Facility (Water or Wastewater)
Step Two B
(Political)



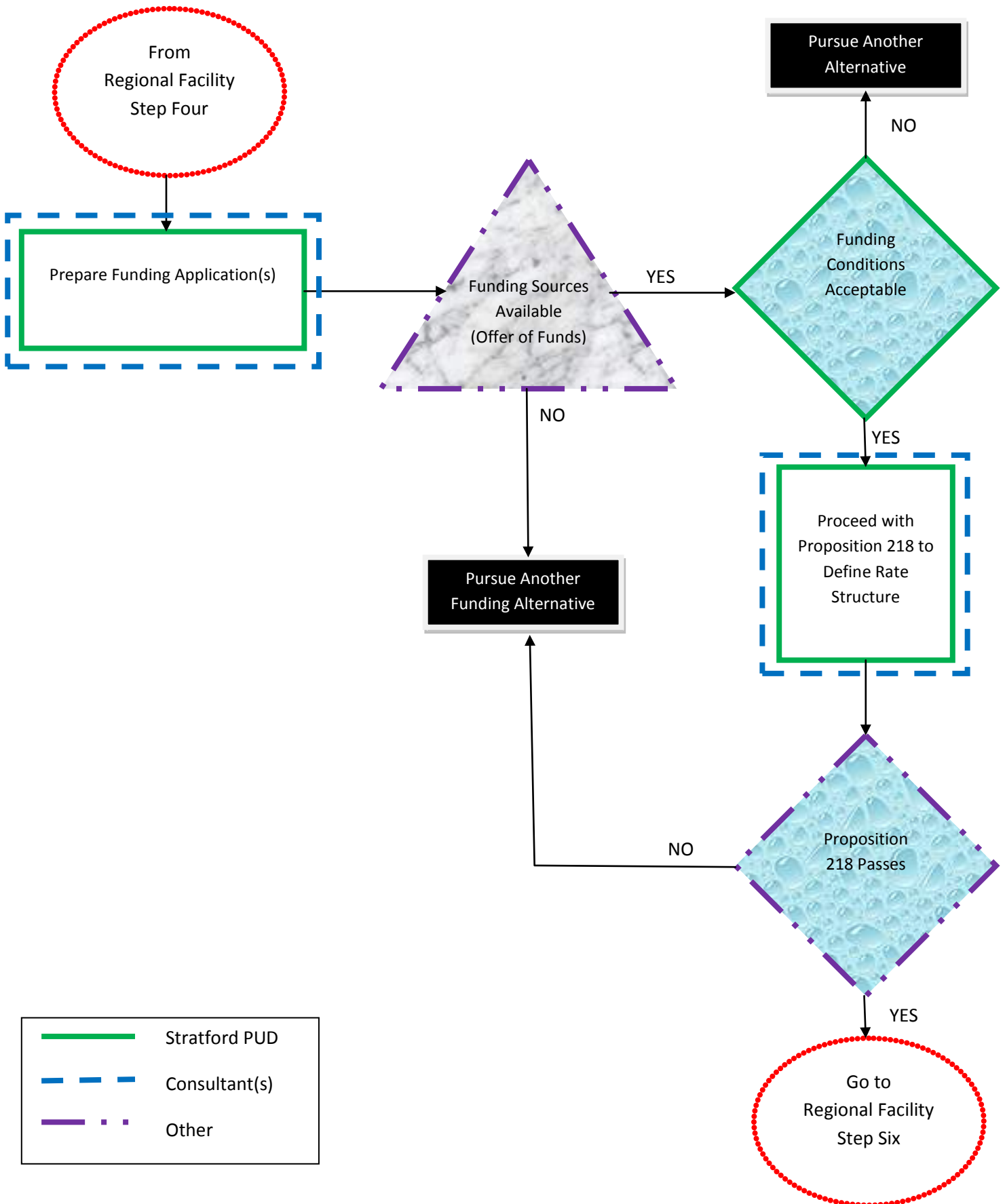
Stratford PUD
Regional Facility (Water or Wastewater)
Step Three



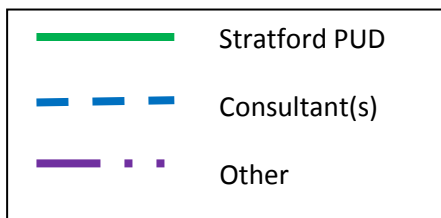
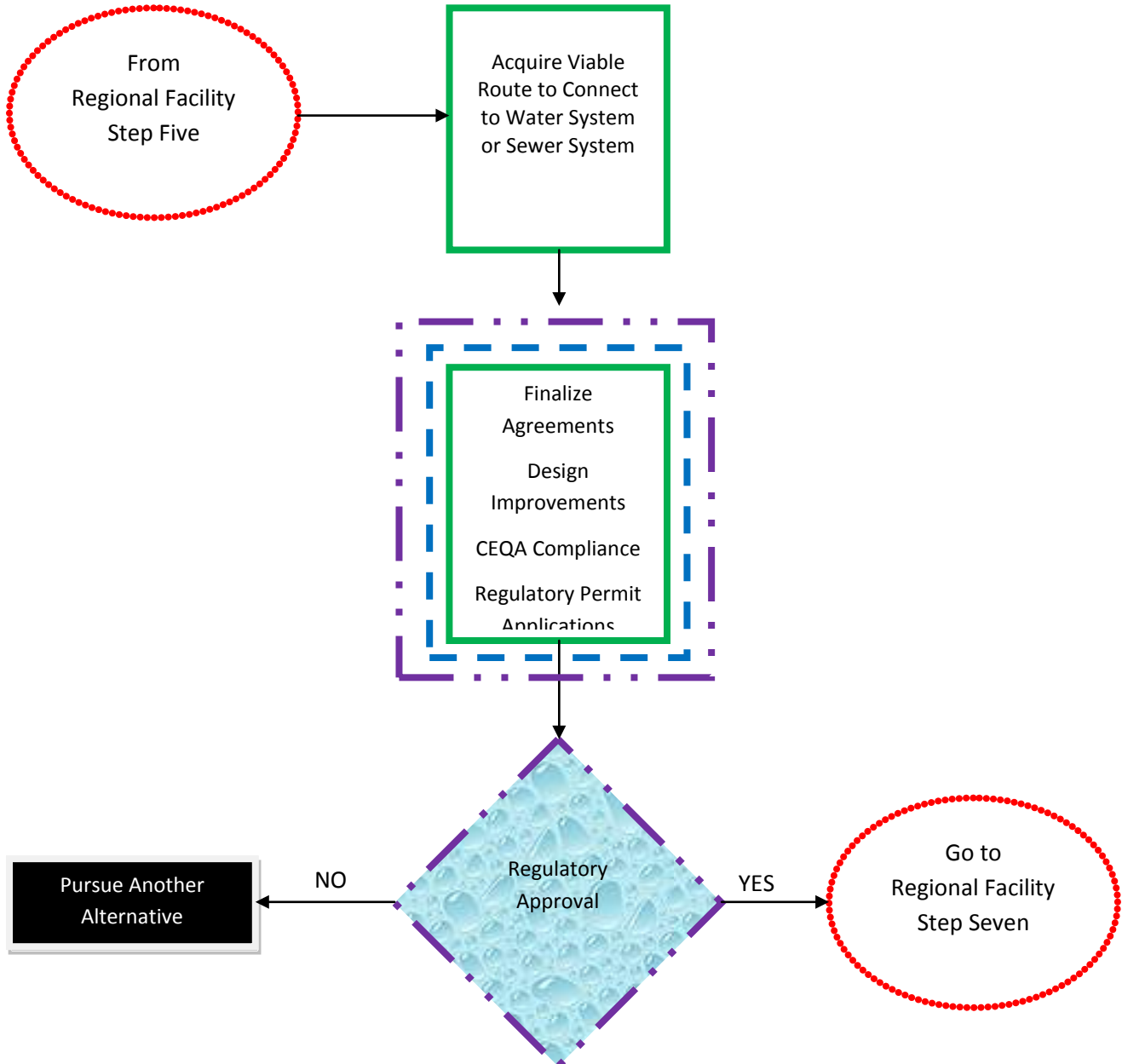
Stratford PUD
Regional Facility (Water or Wastewater)
Step Four



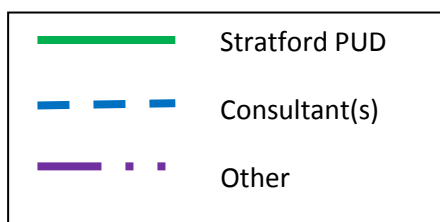
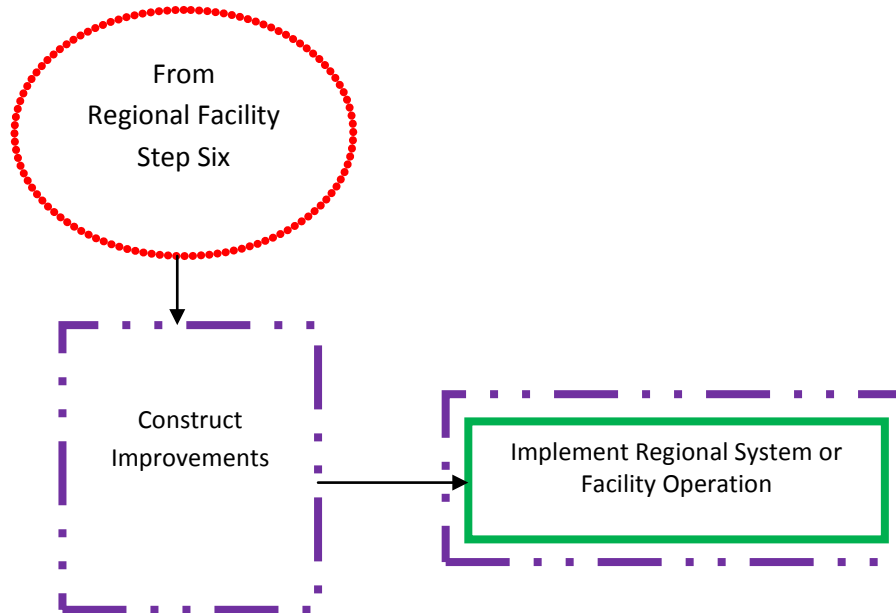
Stratford PUD
Regional Facility (Water or Wastewater)
Step Five



Stratford PUD
Regional Facility (Water or Wastewater)
Step Six



Stratford PUD
Regional Facility (Water or Wastewater)
Step Seven



start

Investigate Local Hydrogeology
(Groundwater Depth, Quality)
(Location / Depth of existing wells)

Potential for Groundwater Water Supply

Pursue Another Alternative

Step 1

- Stratford PUD
- Consultant(s)
- Other

YES

Are Funding Sources Available?

No

Pursue Another Funding Alternative

YES

Prepare Funding Application

Proceed with Community Funds

Prepare Preliminary Engineer's Report
Include Capital and Operational Costs

Step 2

Offer of Funds?

YES

Funding Conditions Acceptable

YES

Proceed with Prop 218 if Rate Adjustment is Required

Pursue Another Alternative

No

Proposition 218 Passes

YES

Accept Funds

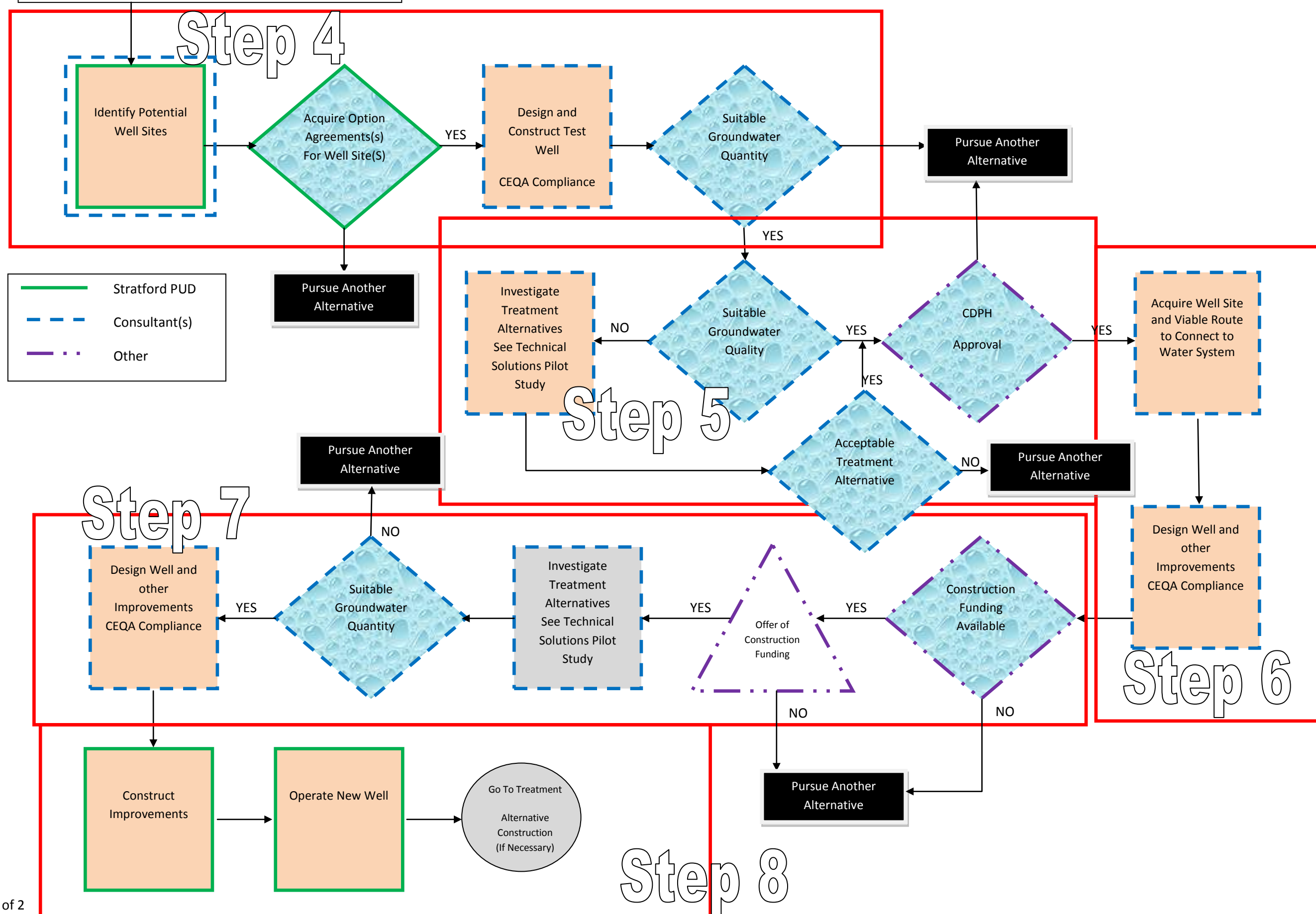
Step 3

No

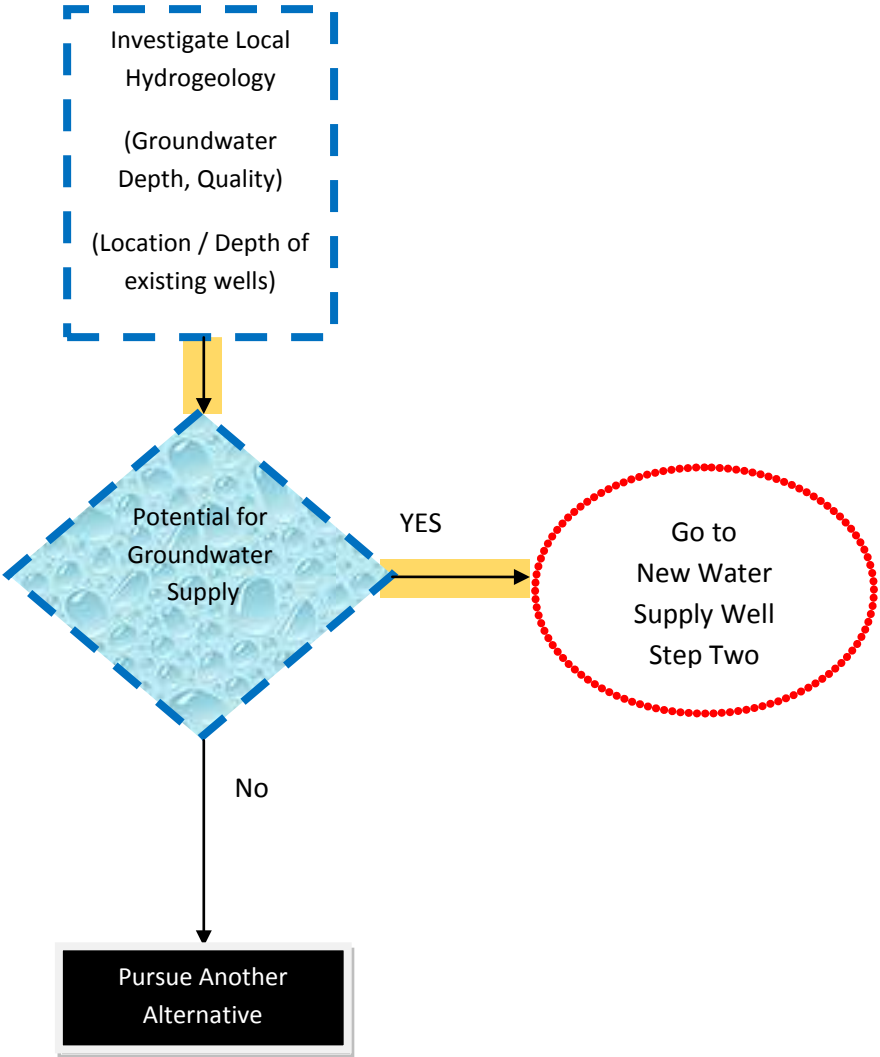
Pursue Another Alternative

No

See New Water Supply Page 2 of 2

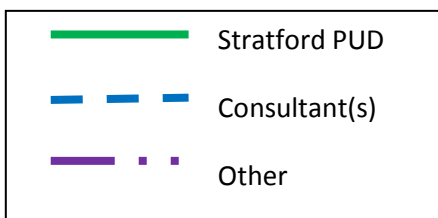
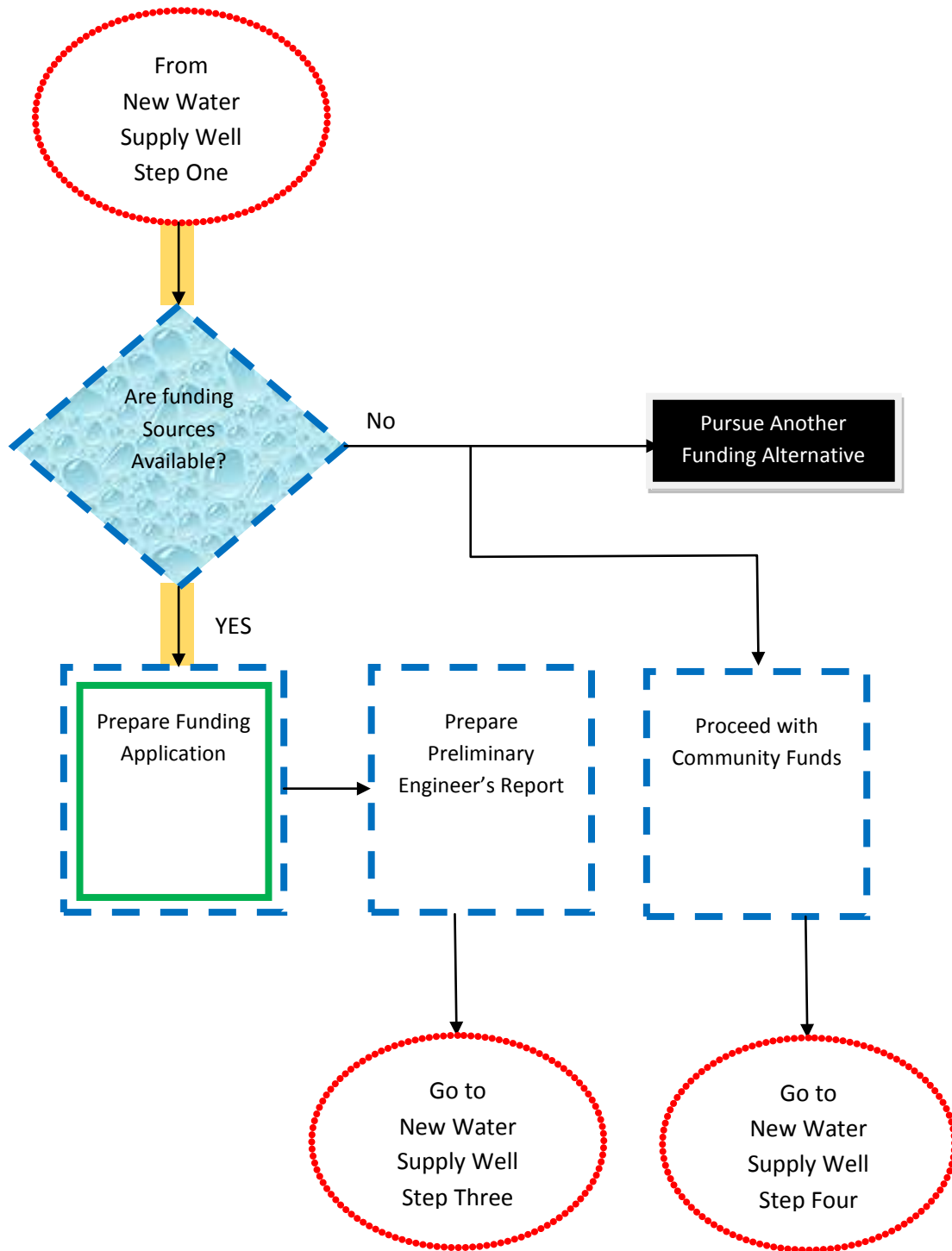


Stratford PUD
New Water Supply Well
Step One



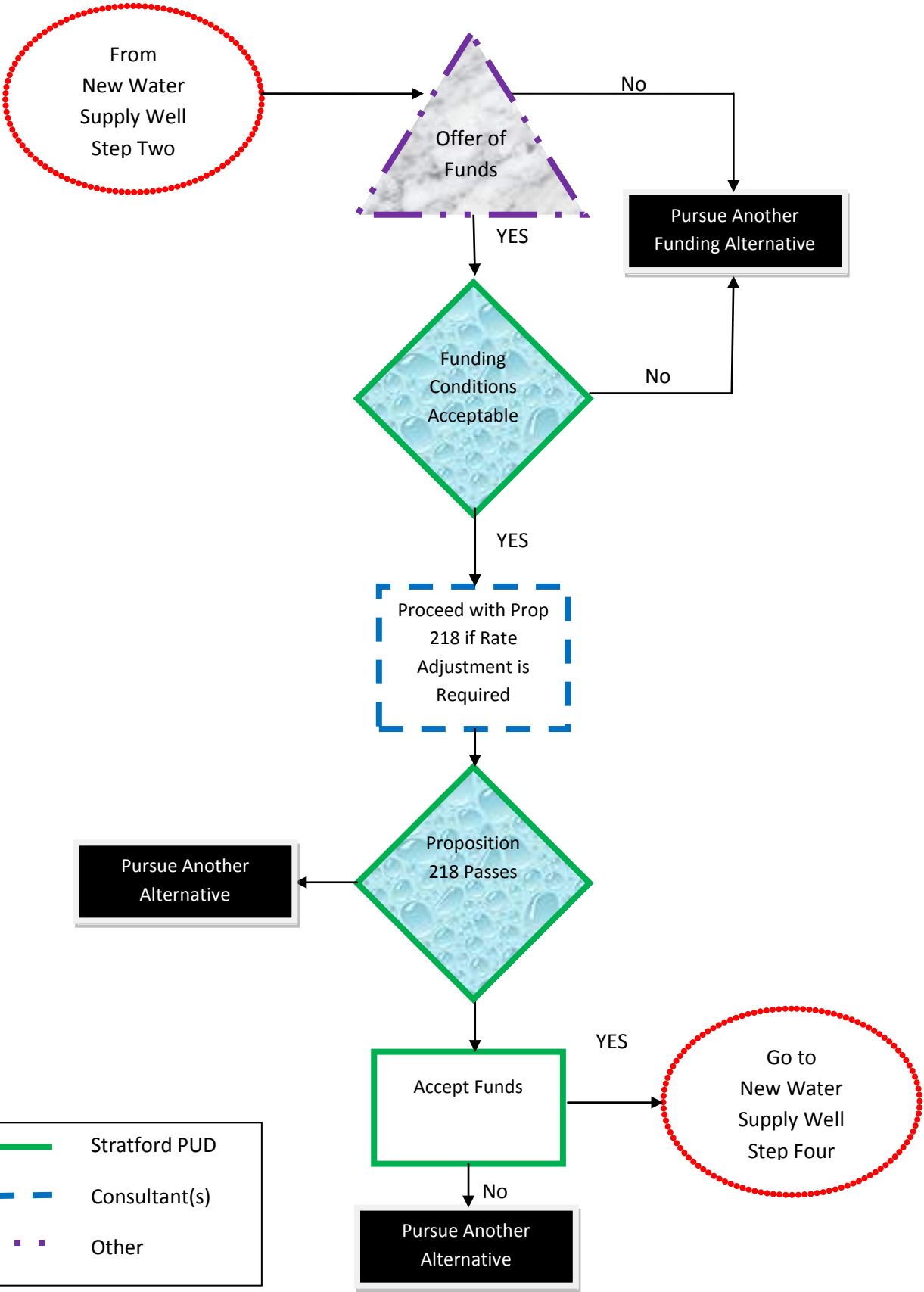
| | |
|--|---------------|
| | Stratford PUD |
| | Consultant(s) |
| | Other |

Stratford PUD
New Water Supply Well
Step Two

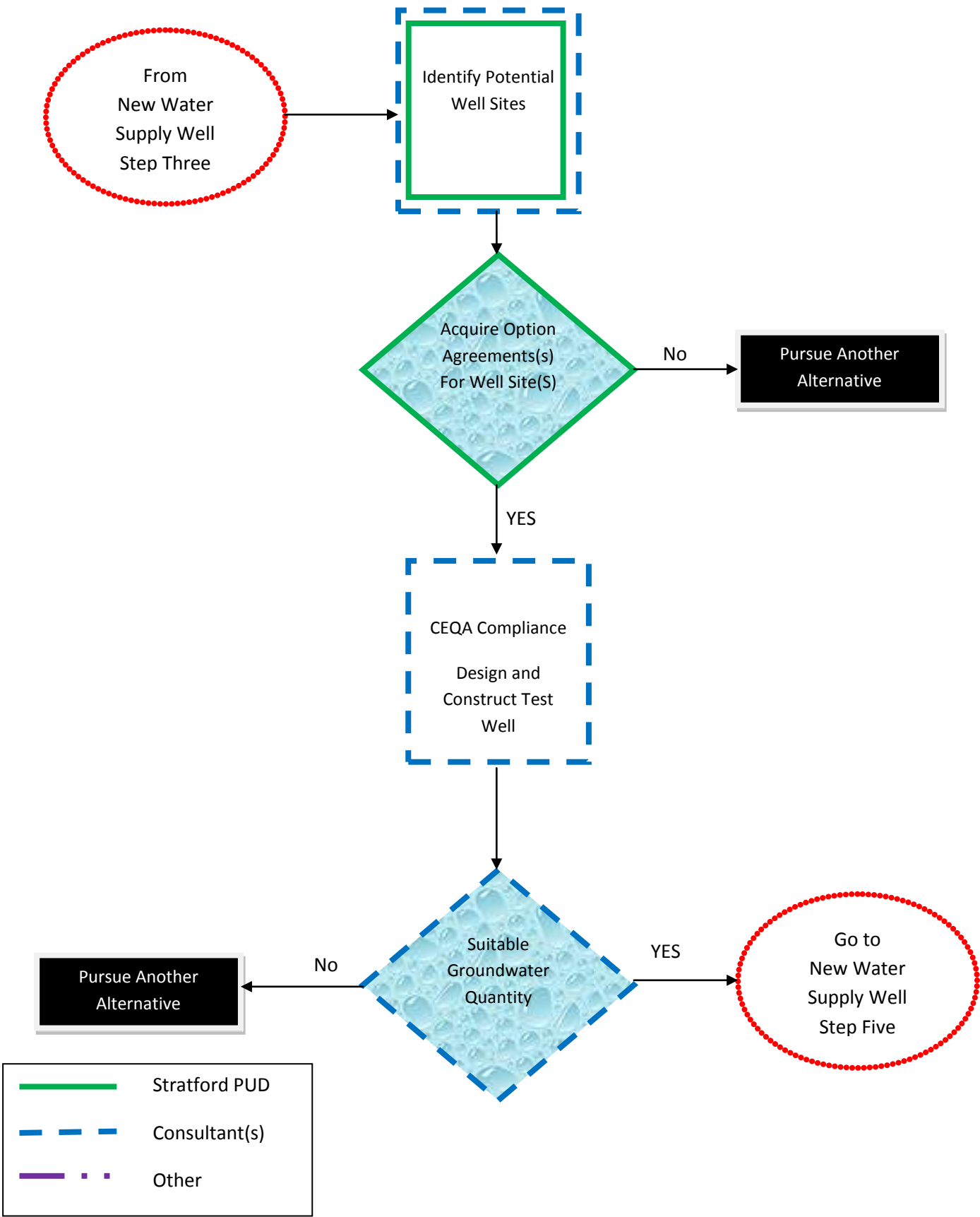


Stratford PUD
New Water Supply Well

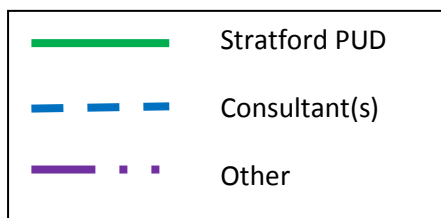
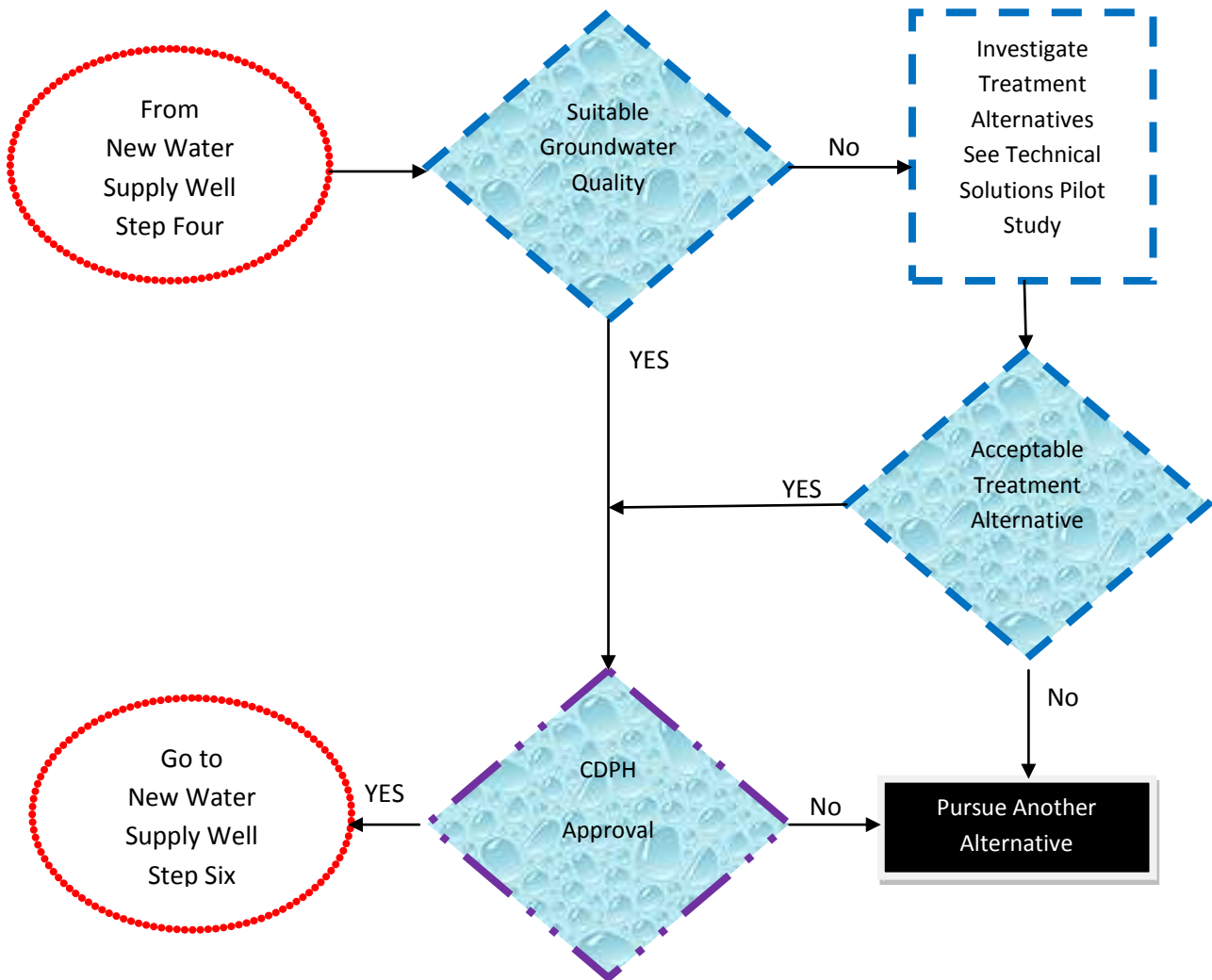
Step Three



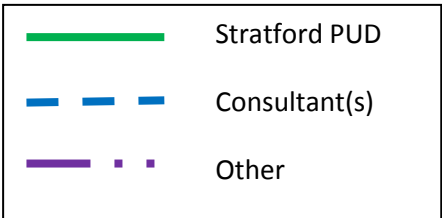
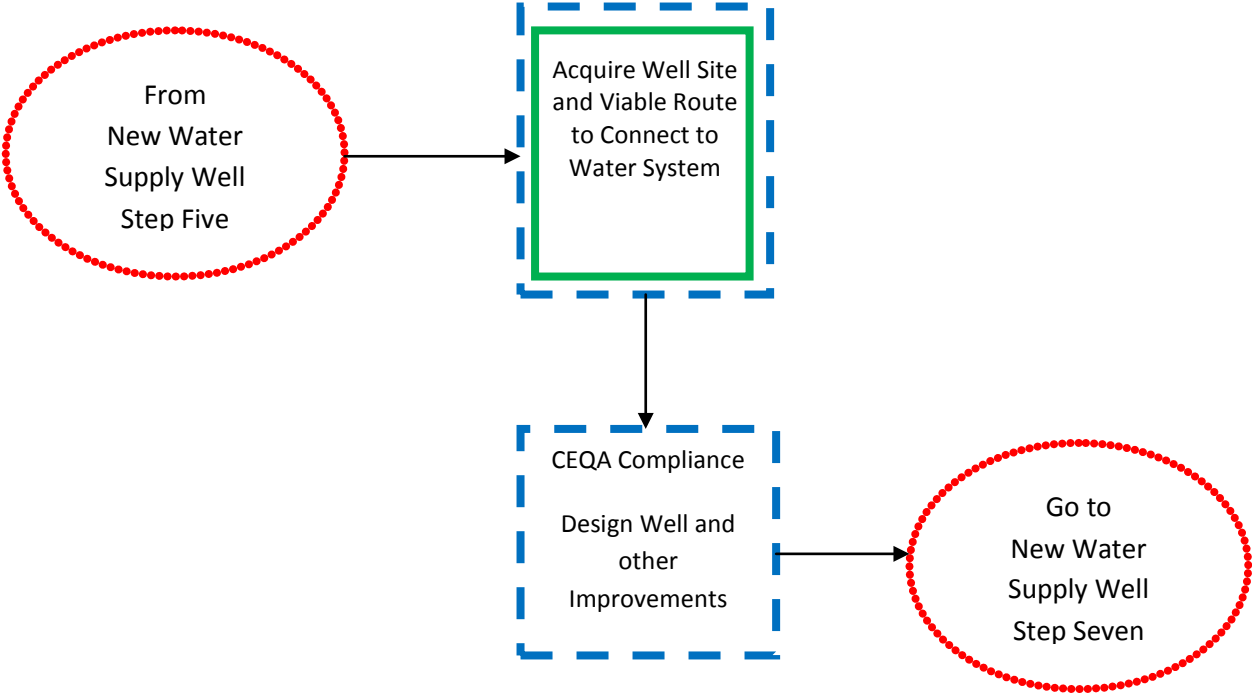
Stratford PUD
New Water Supply Well
Step Four



Stratford PUD
New Water Supply Well
Step Five

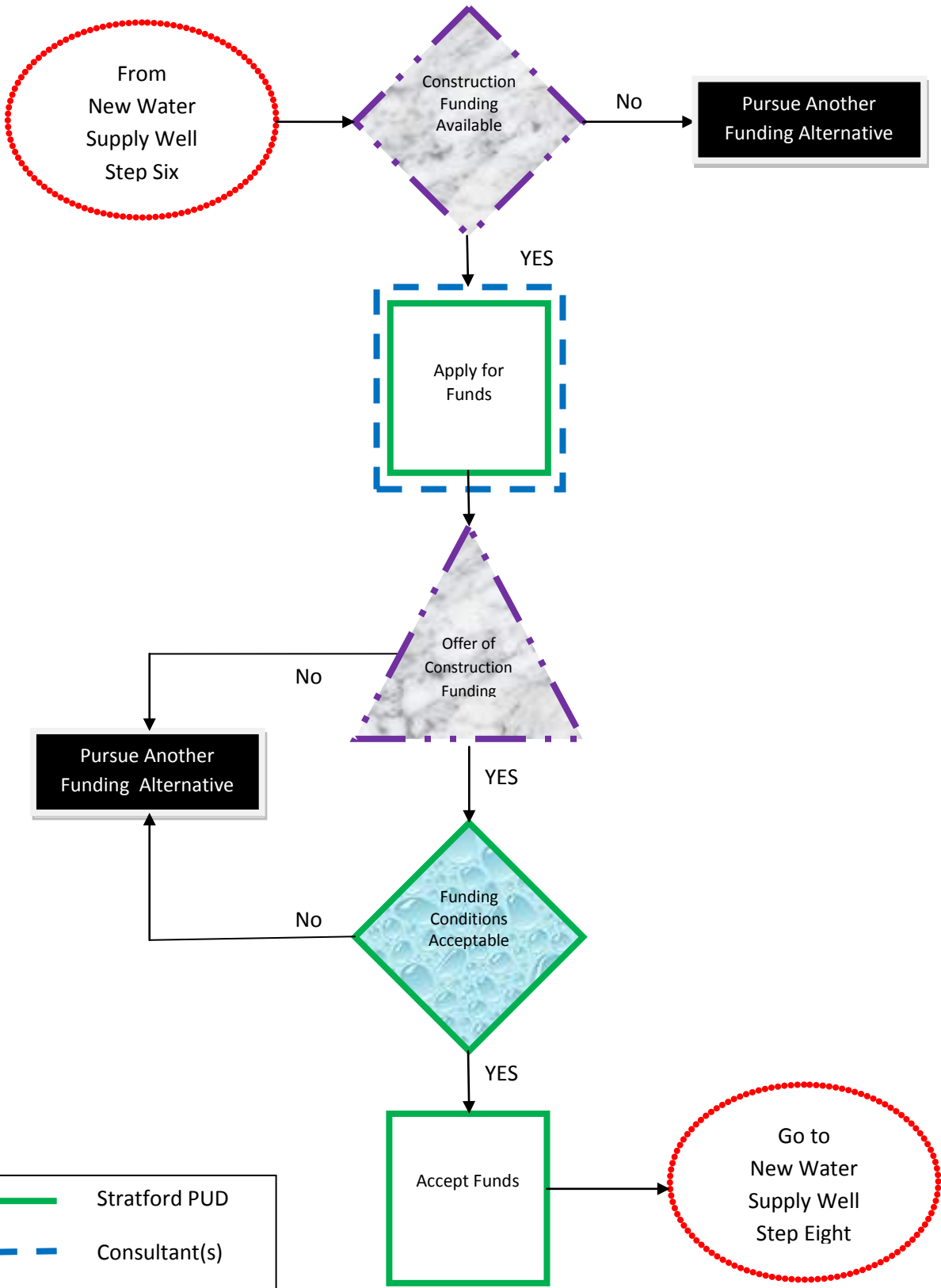


Stratford PUD
New Water Supply Well
Step Six

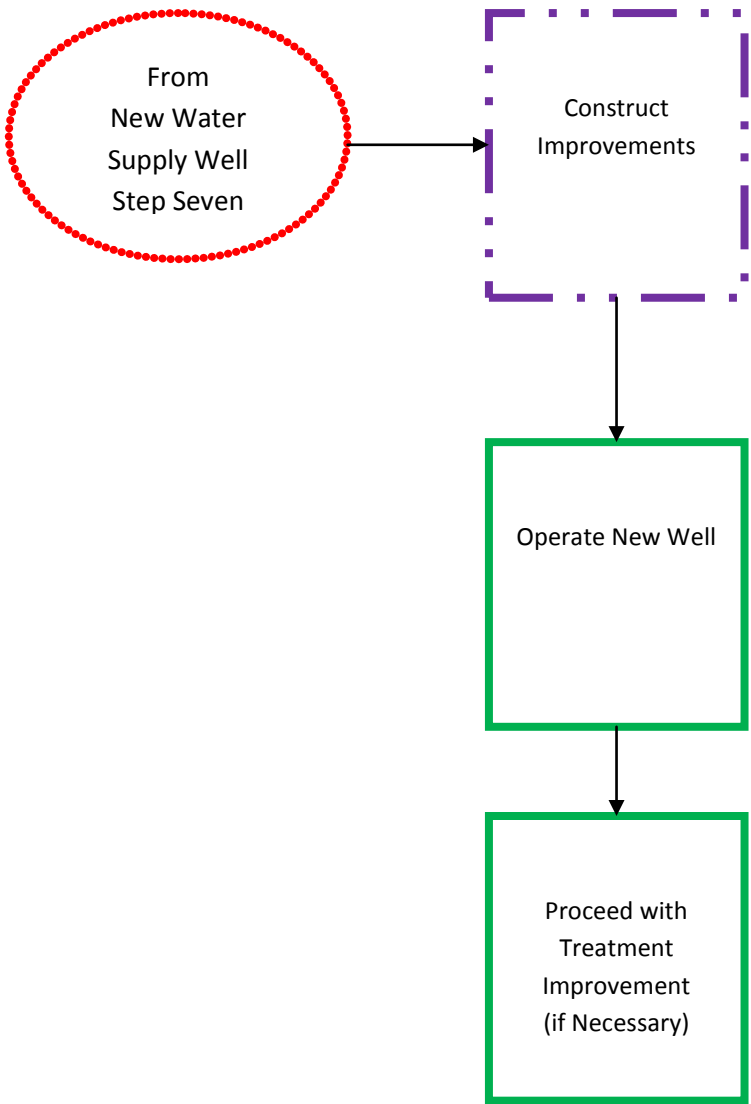


Stratford PUD
New Water Supply Well
Step Seven

Offer of Construction Funding



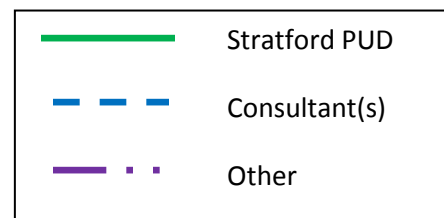
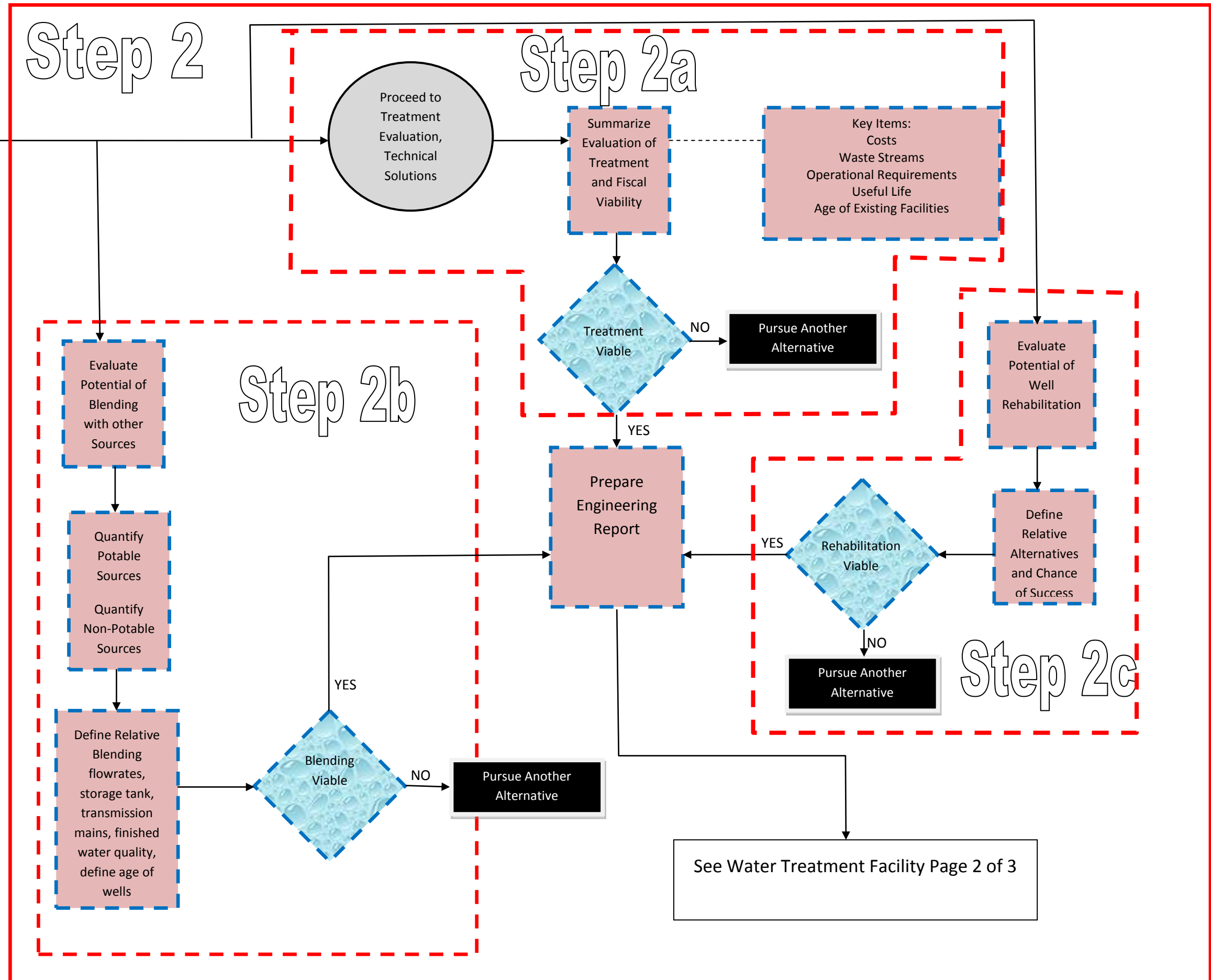
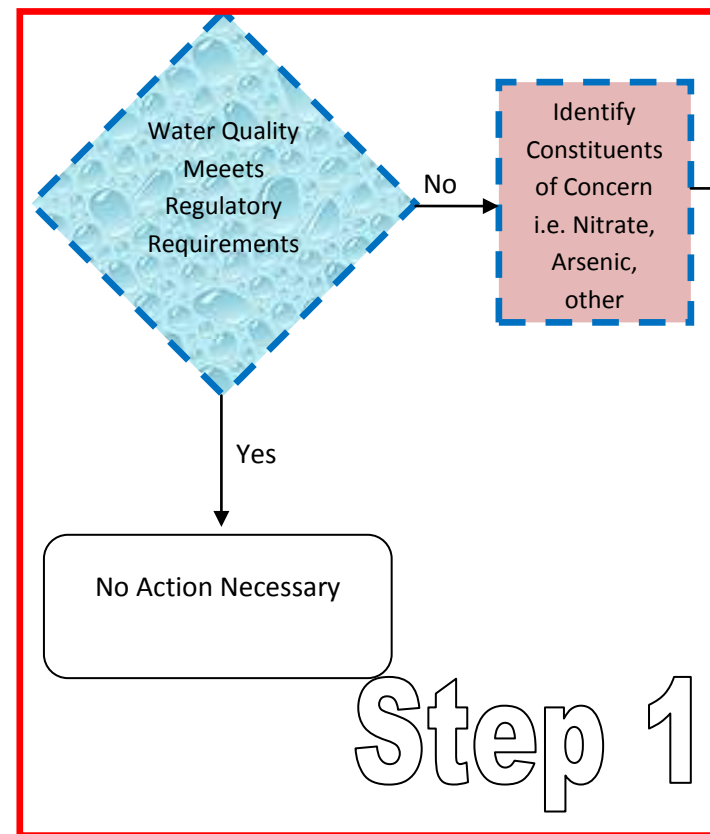
Stratford PUD
New Water Supply Well
Step Eight



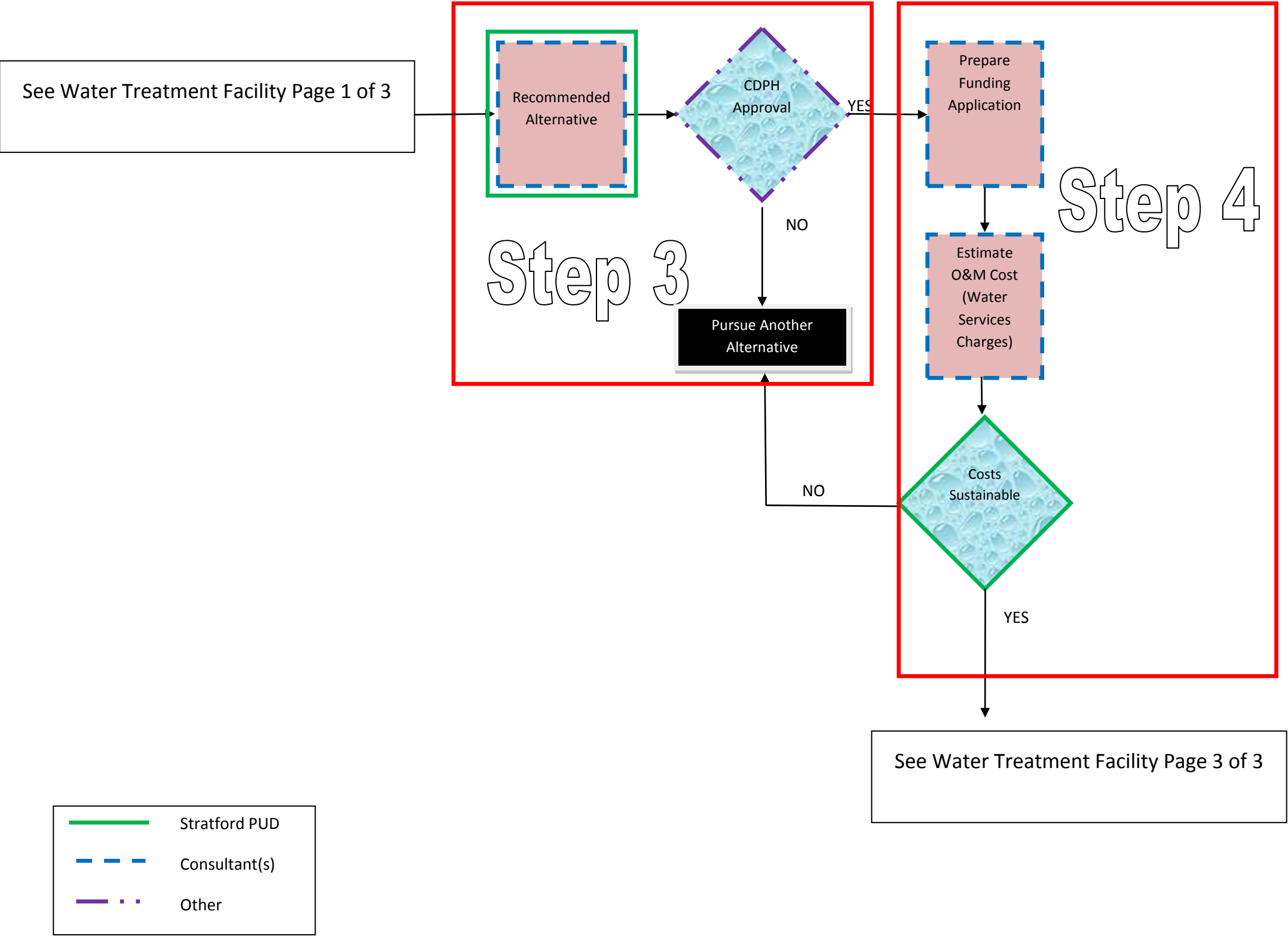
start

Water Treatment Facility On a Water Supply Well

Stratford PUD

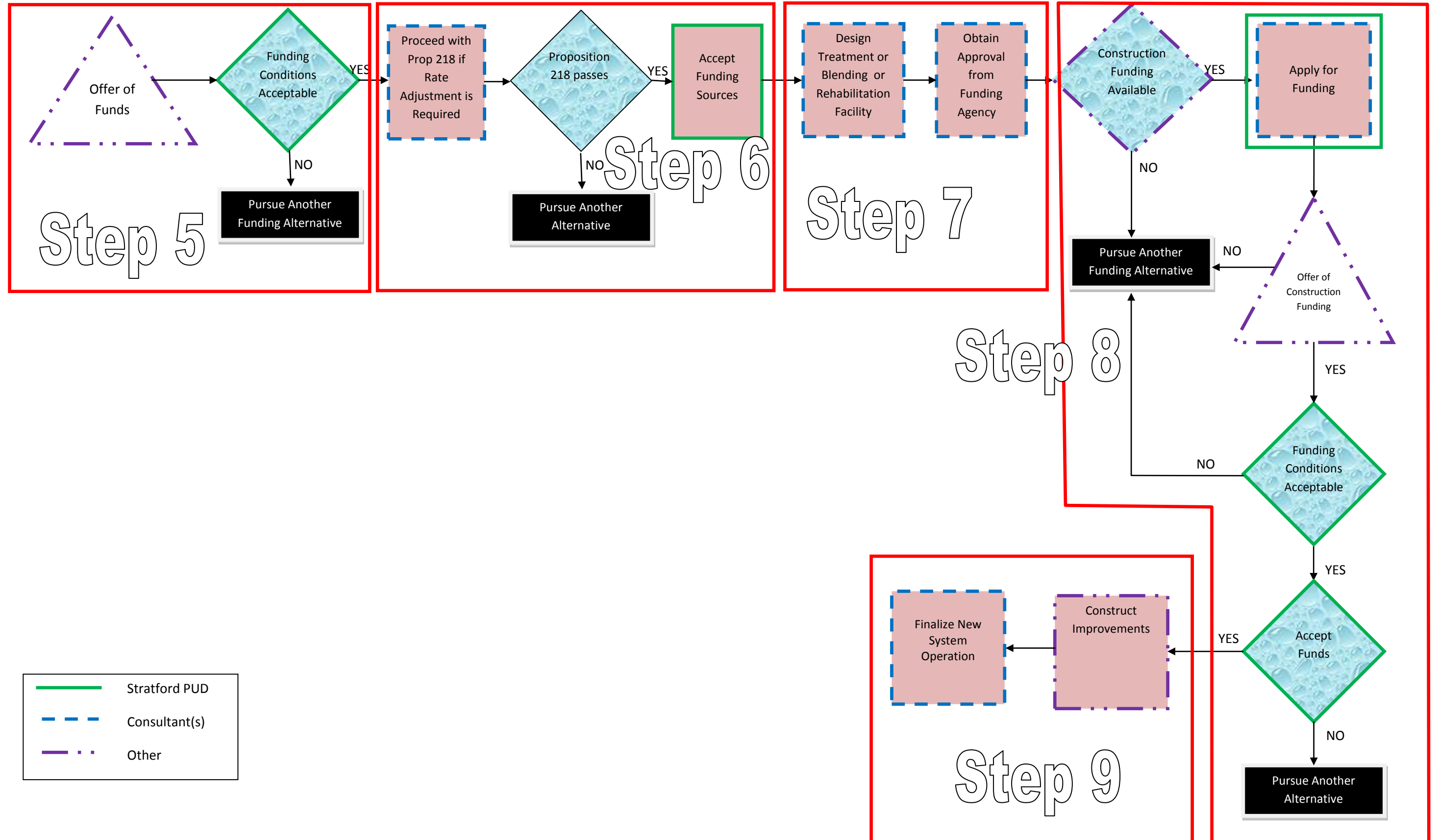


Water Treatment Facility
On a Water Supply Well

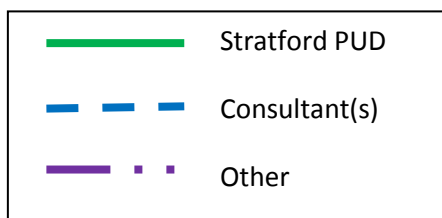
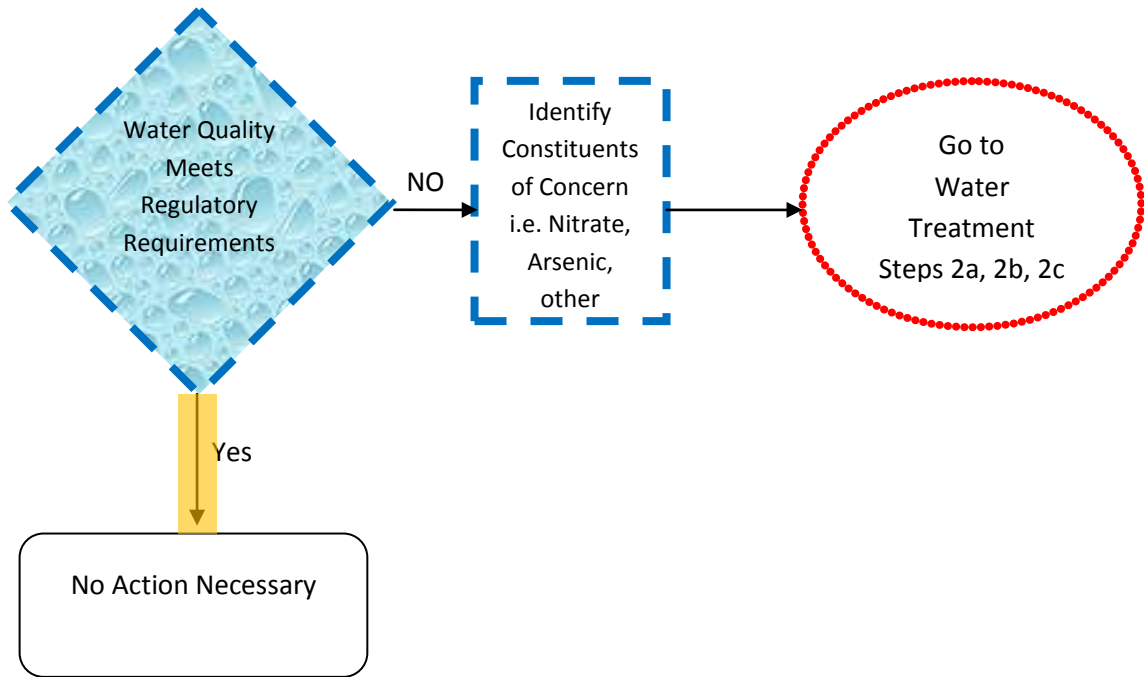


Water Treatment Facility
On a Water Supply Well

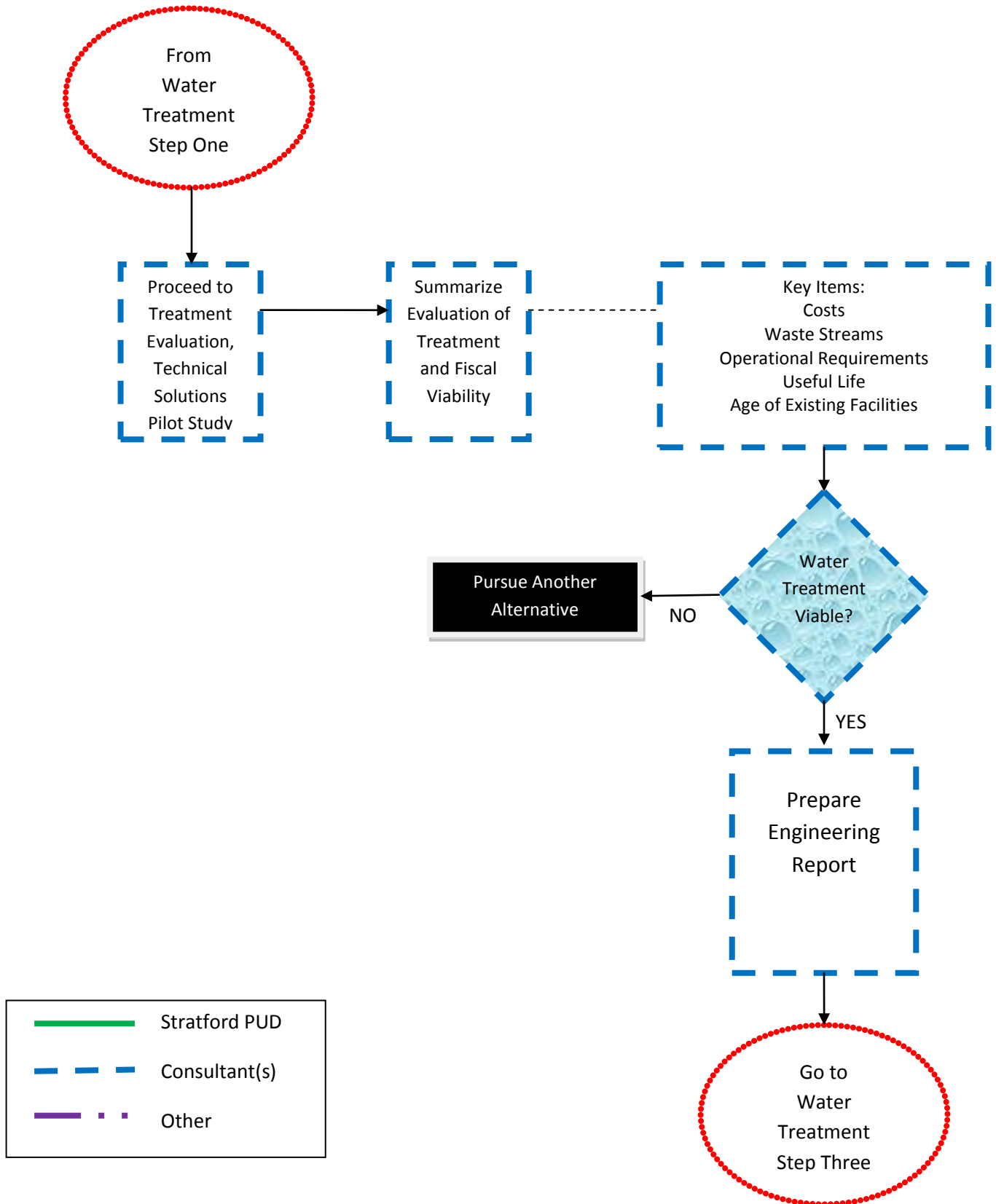
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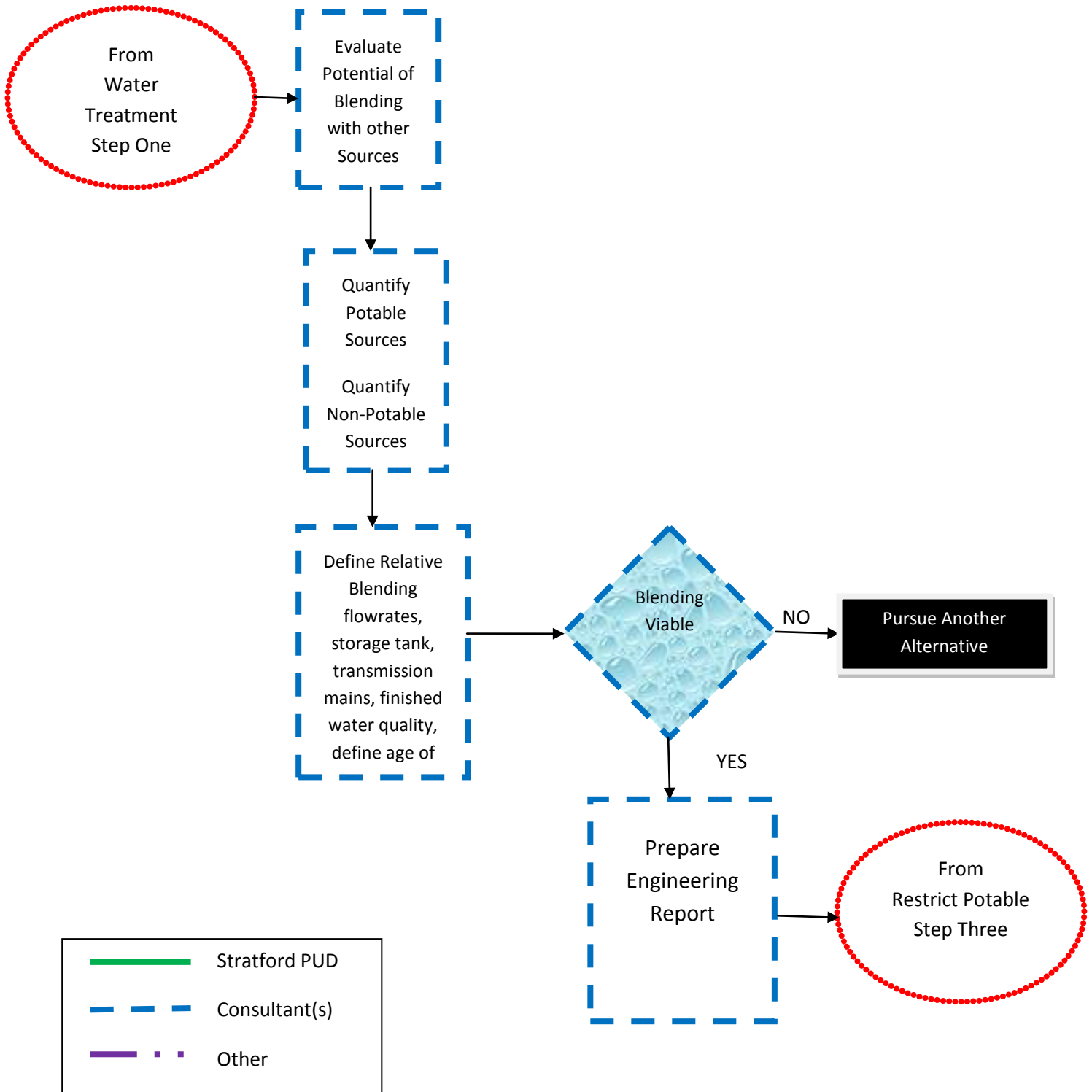
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step One



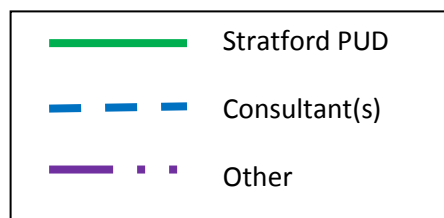
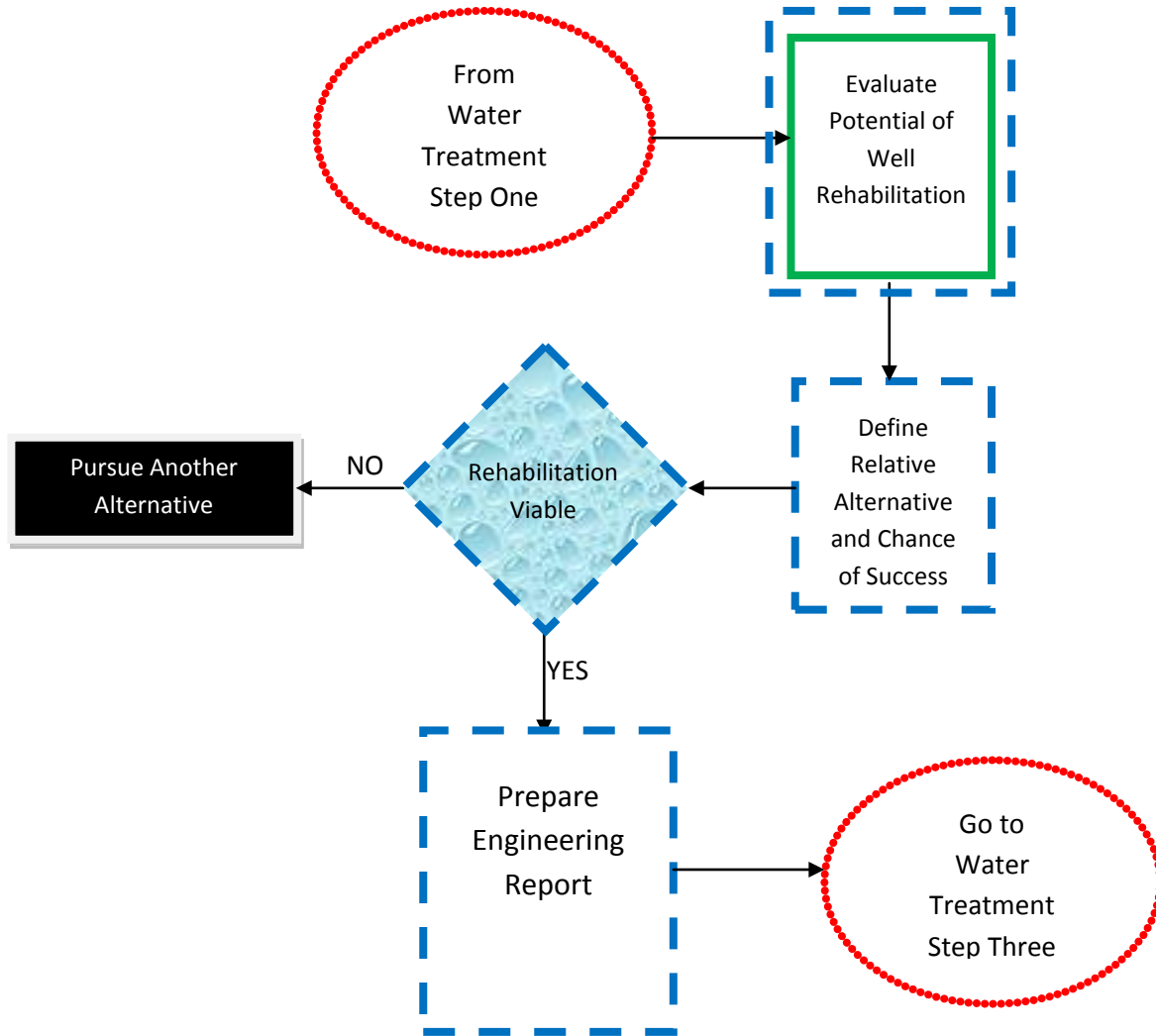
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2a



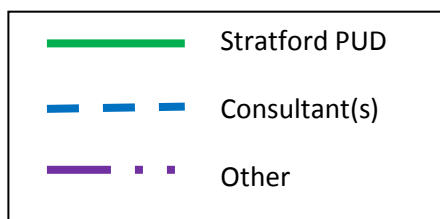
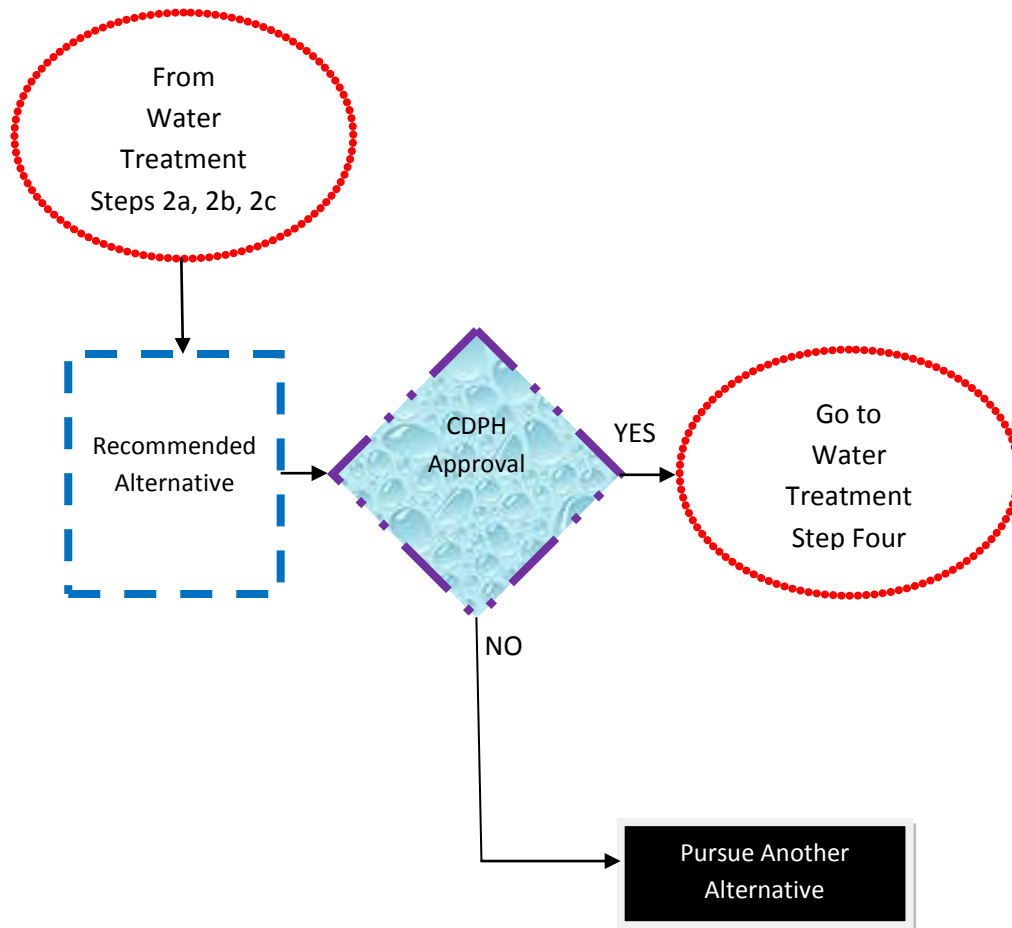
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2b



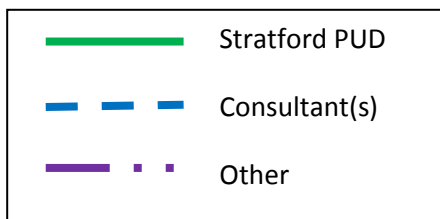
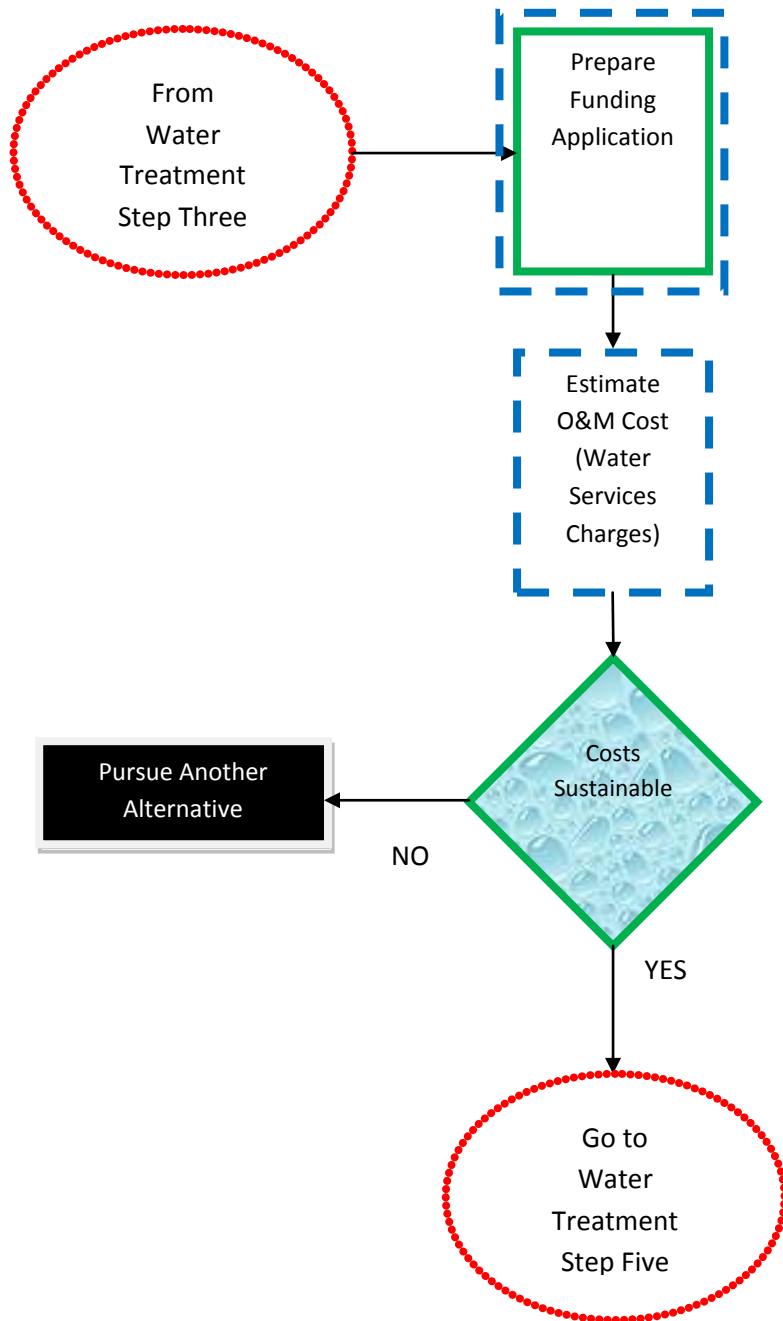
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 2c



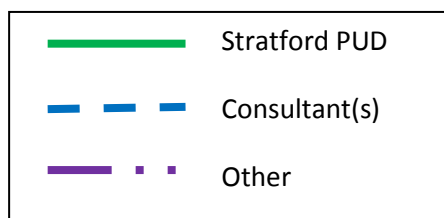
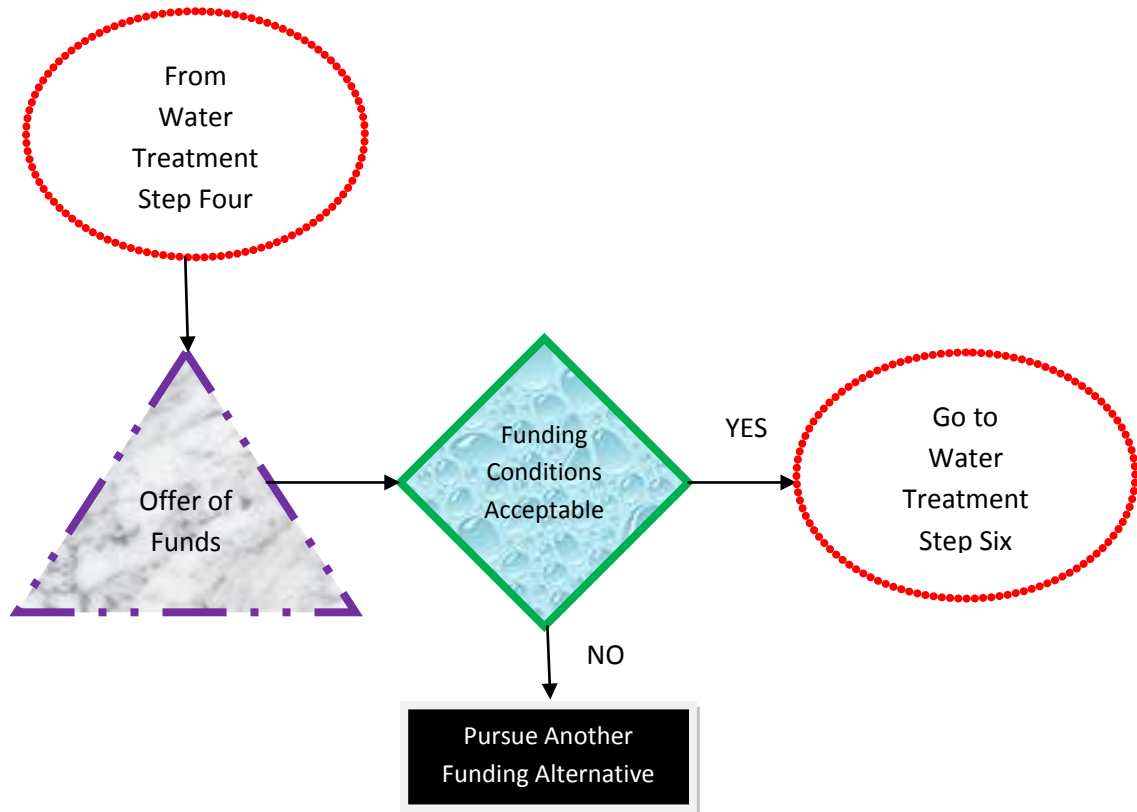
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 3



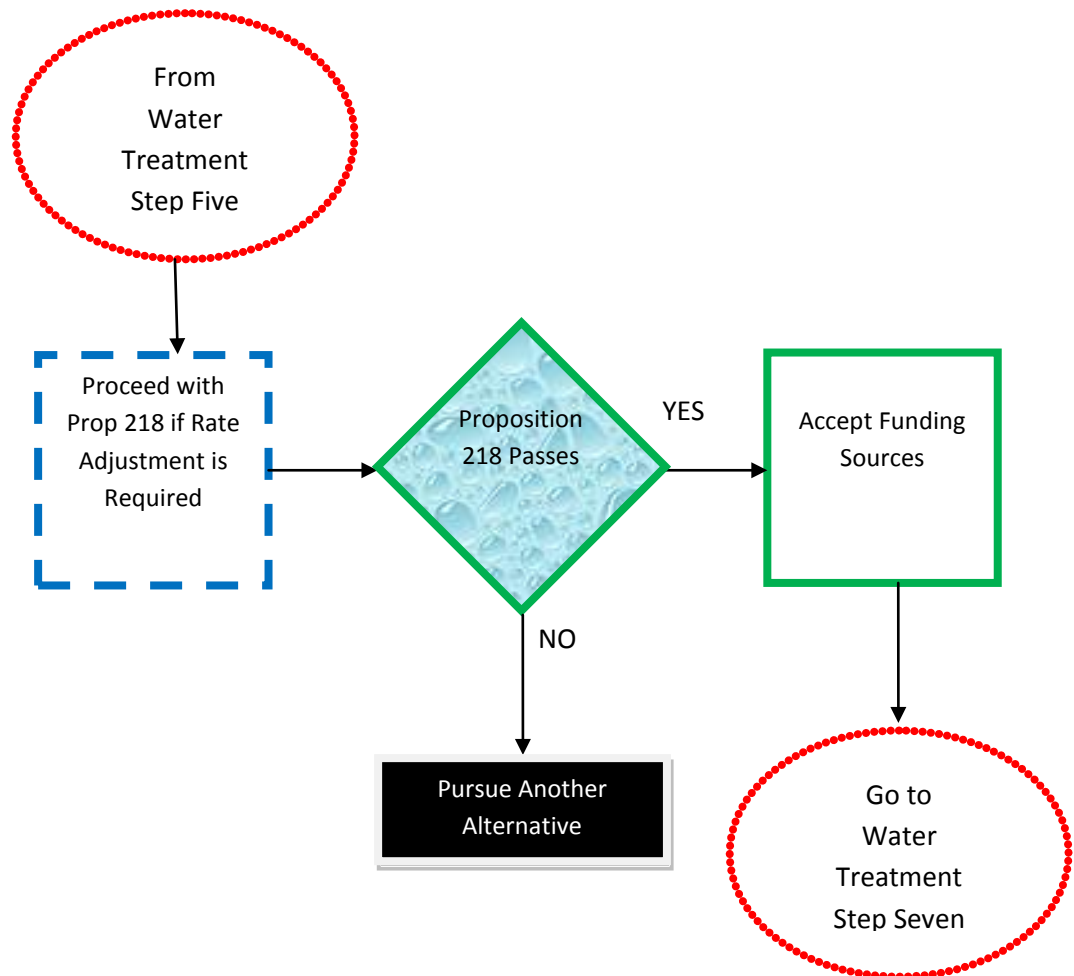
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Water Treatment Facility
On a New or Existing Water Supply Well
Step 4



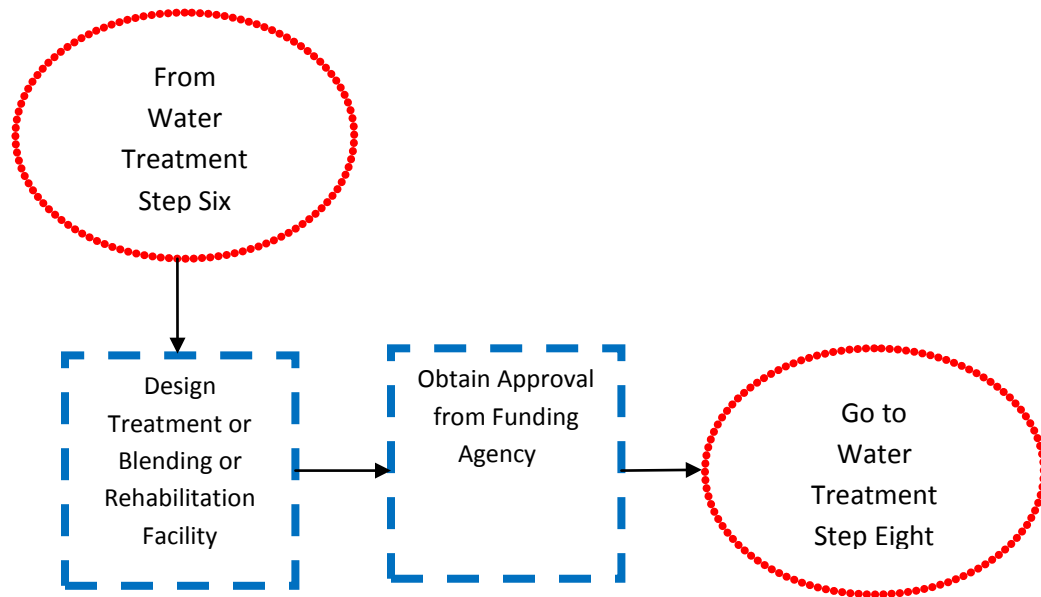
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Water Treatment Facility
On a New or Existing Water Supply Well
Step 5



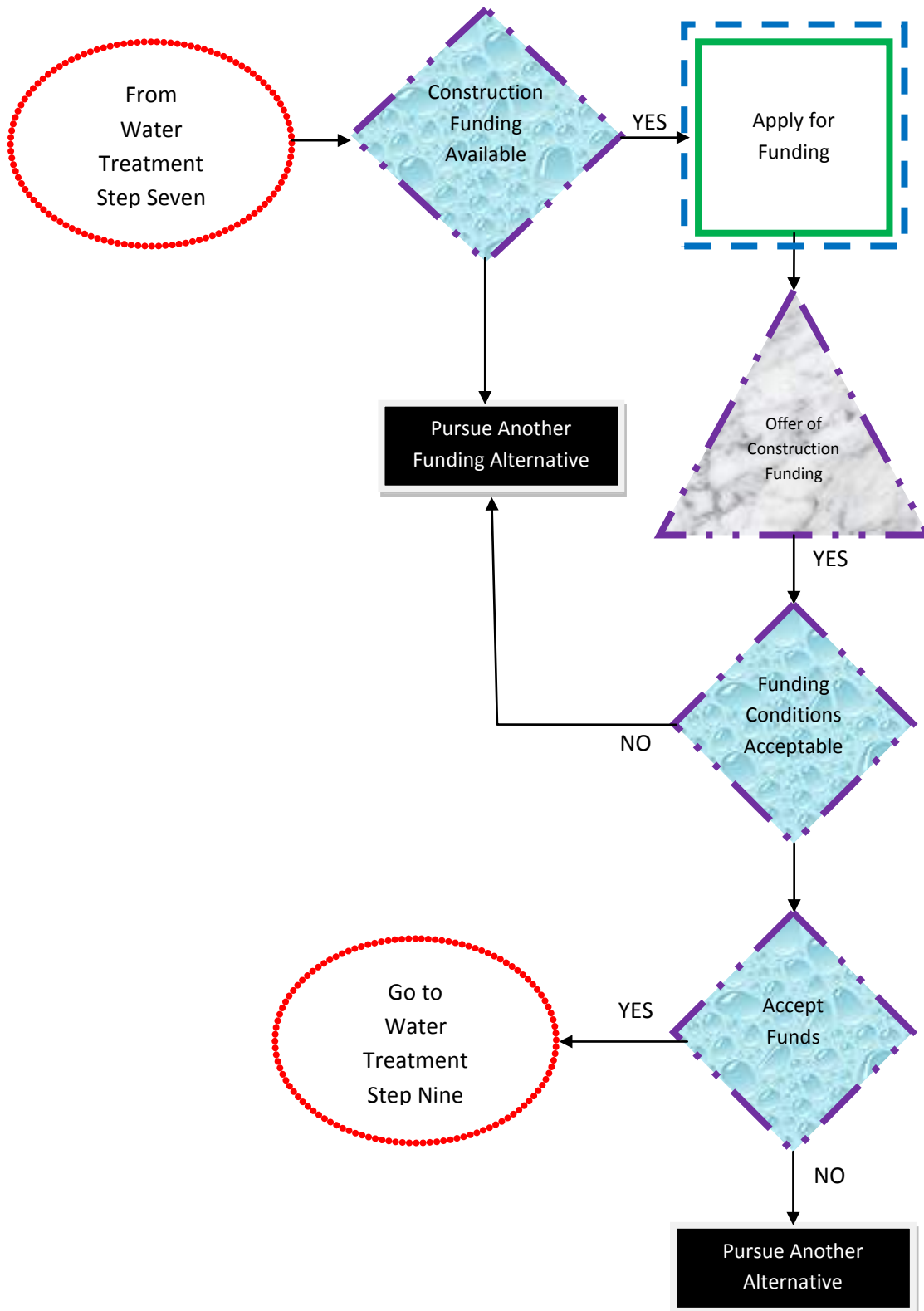
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 6



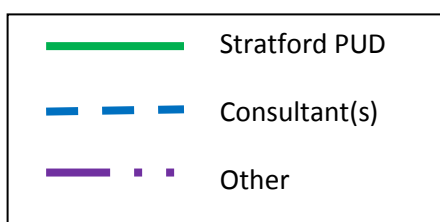
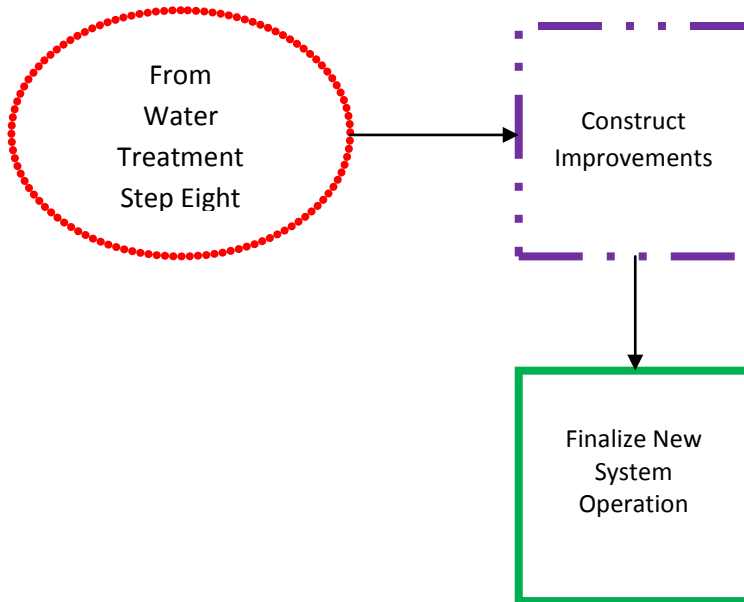
Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 7



Stratford PUD
Water Treatment Facility
On a New or Existing Water Supply Well
Step 8



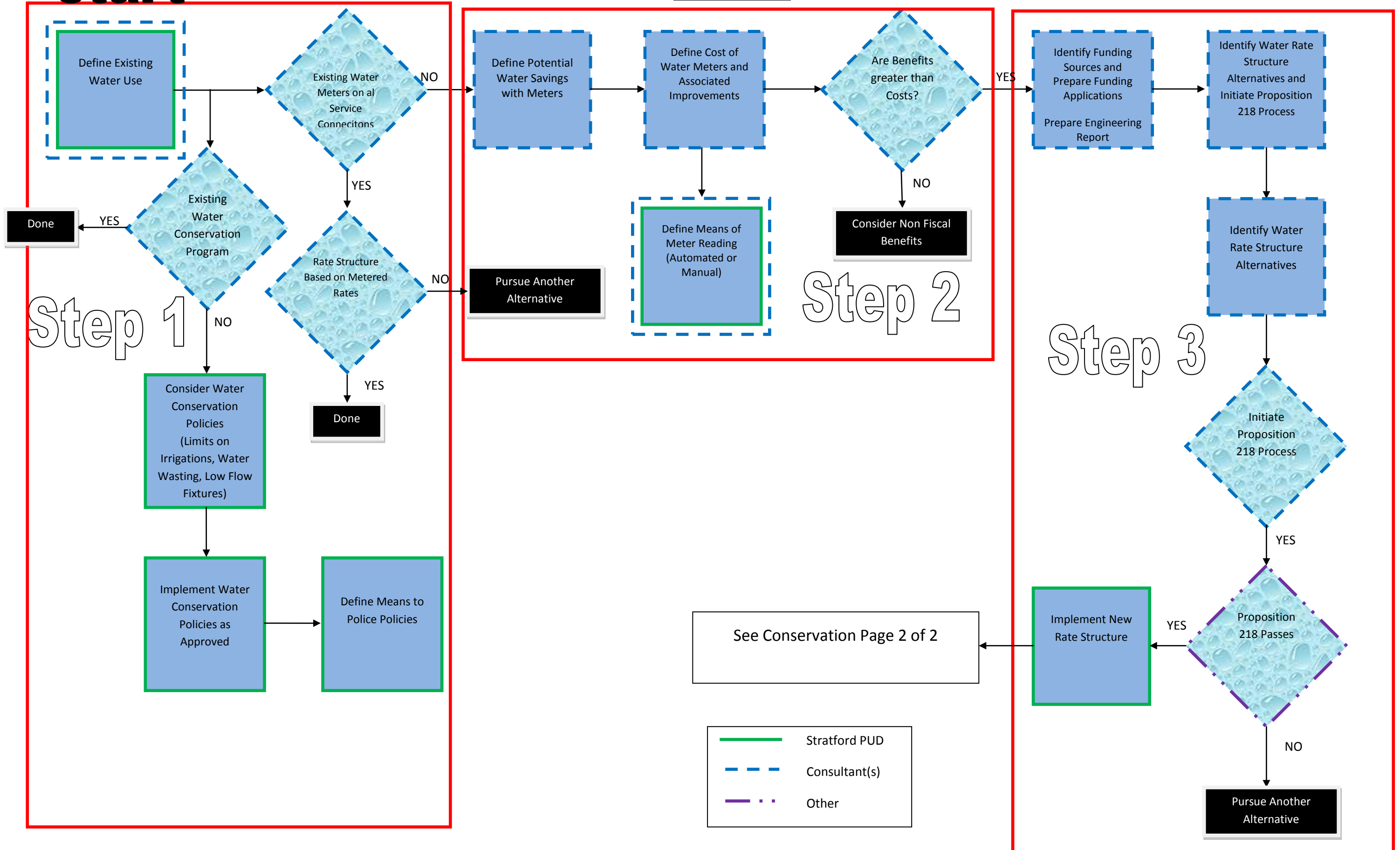
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Water Treatment Facility
On a New or Existing Water Supply Well
Step 9

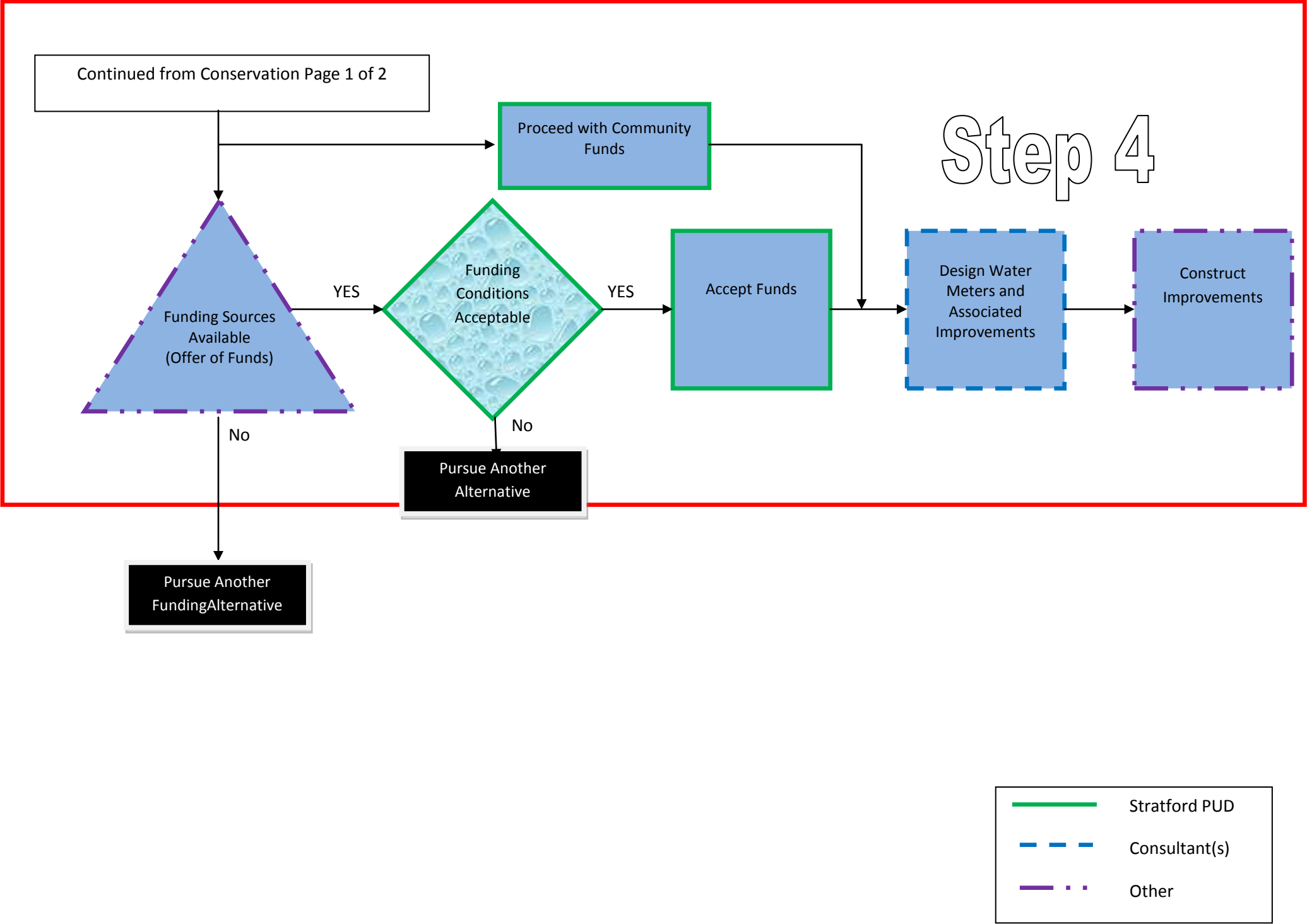


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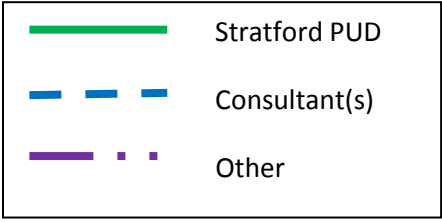
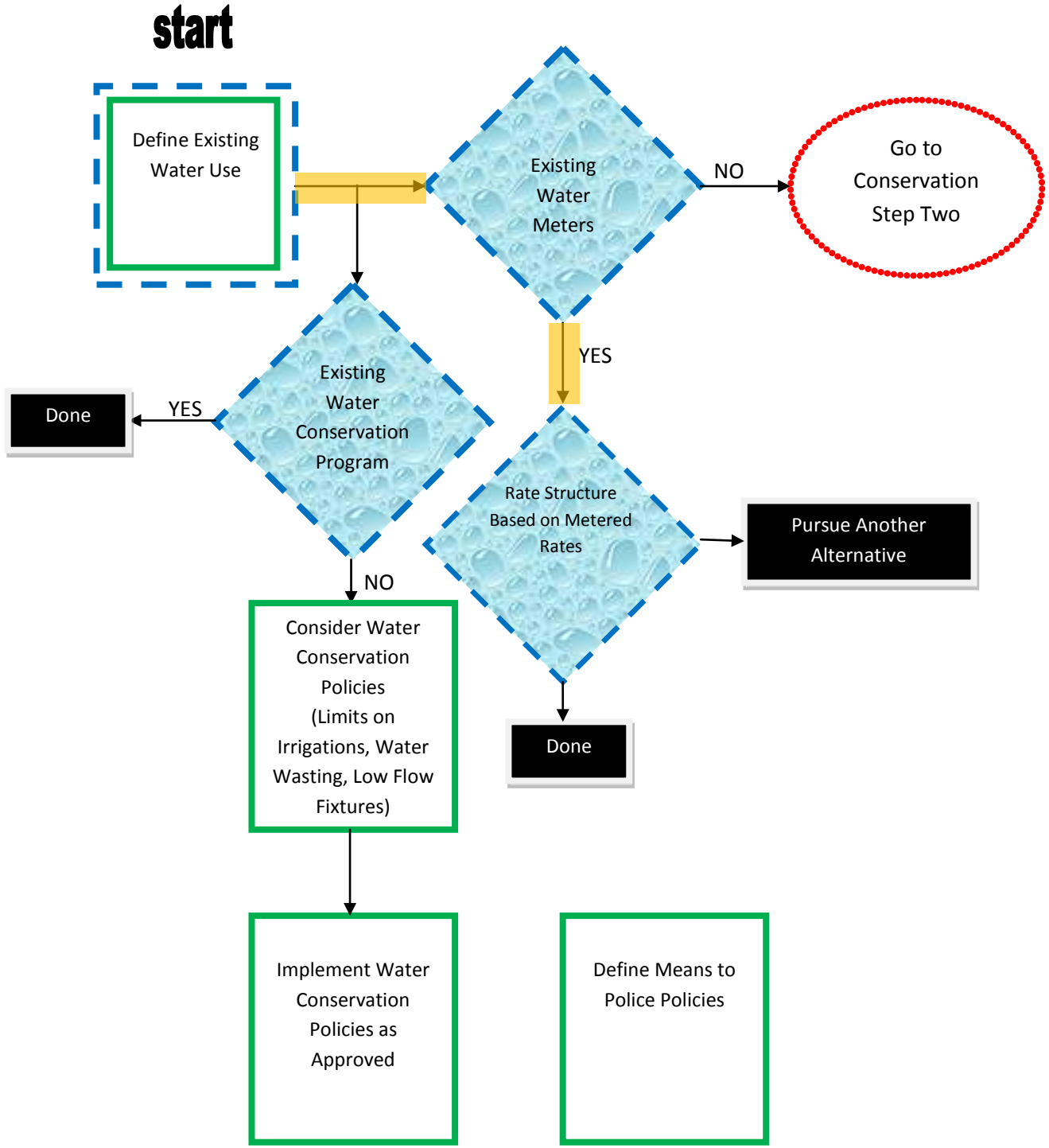
Conservation

Stratford PUD

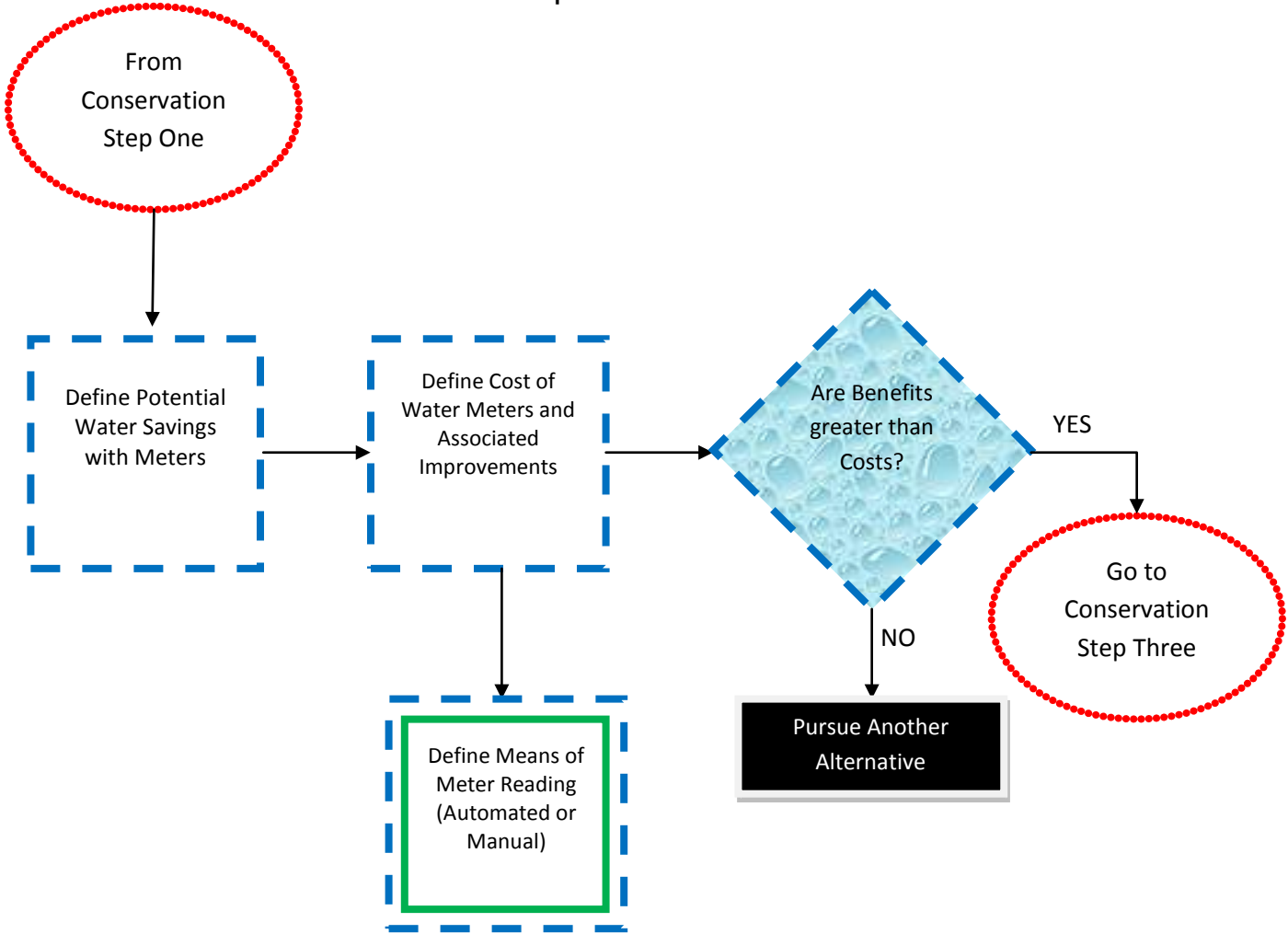




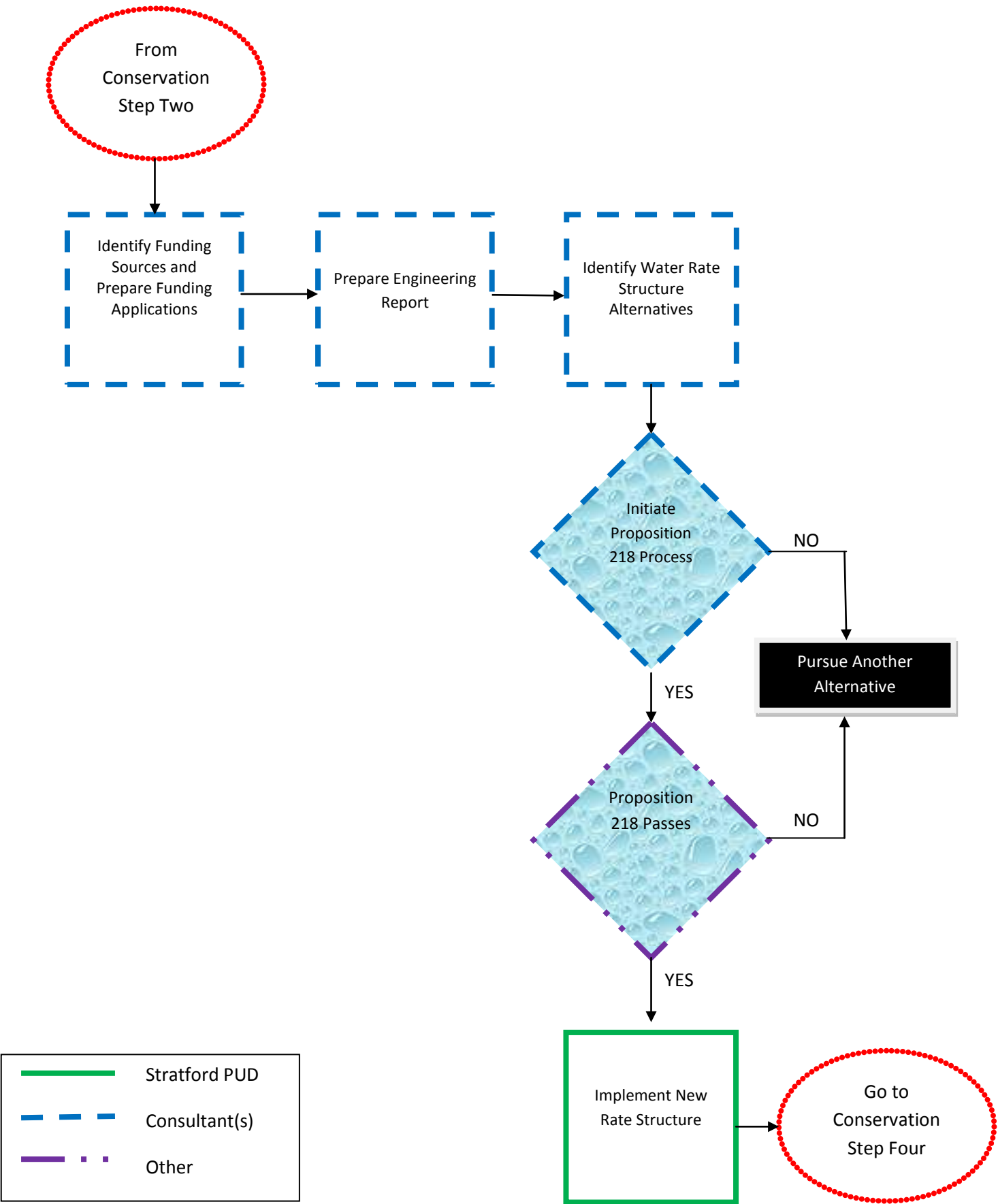
Stratford PUD
Conservation
Step One



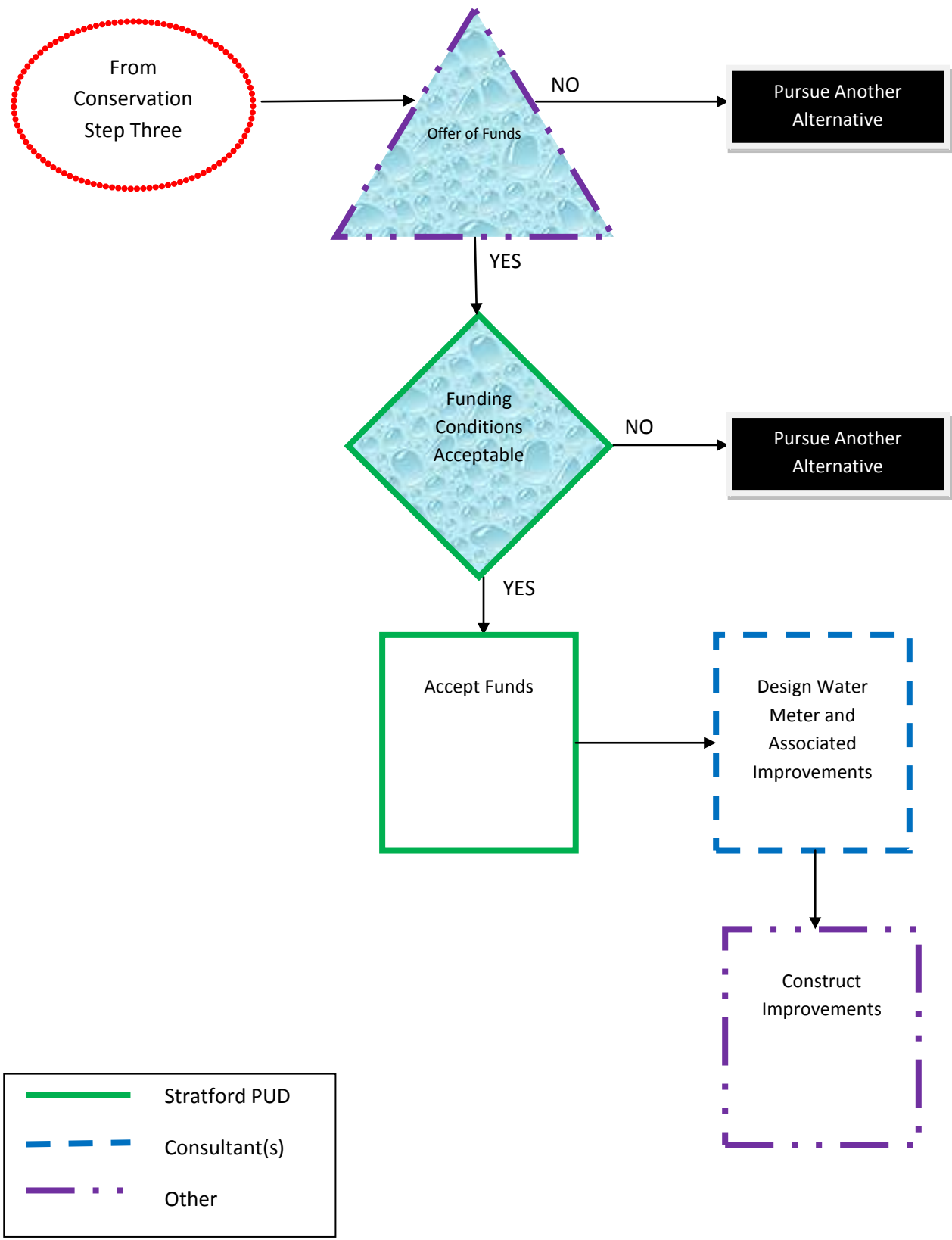
Stratford PUD
Conservation
Step Two

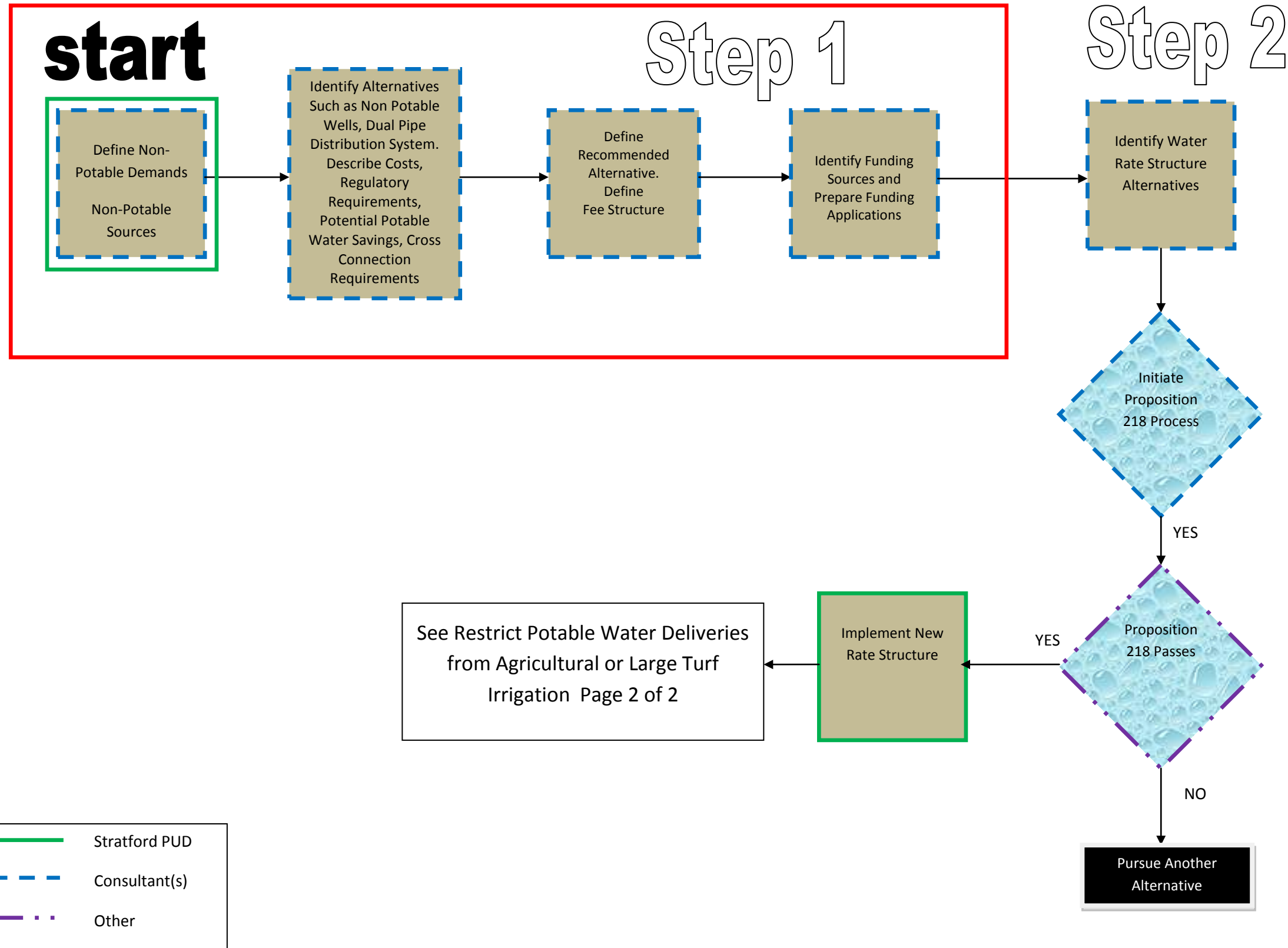


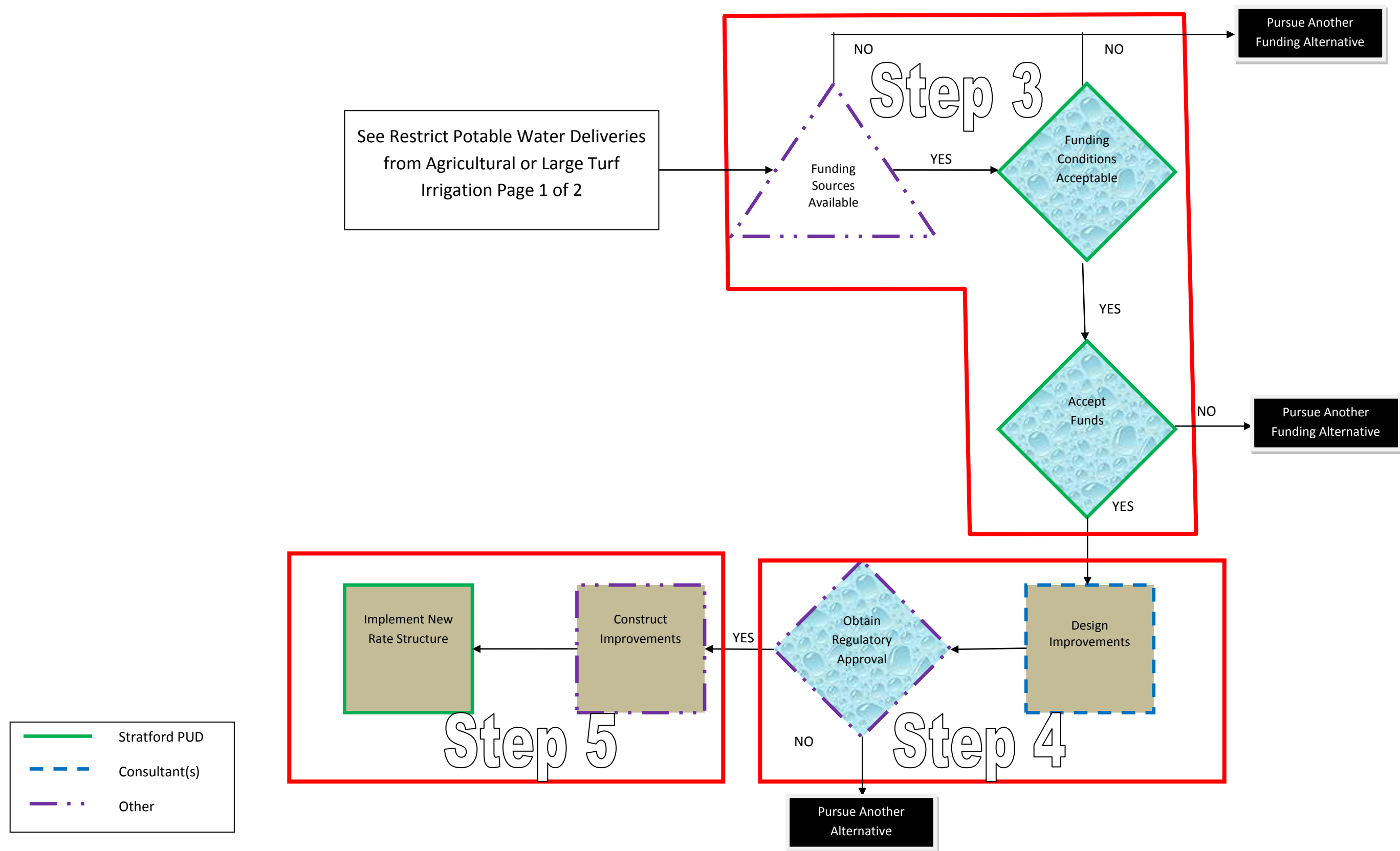
Stratford PUD
Conservation
Step Three



Stratford PUD
Conservation
Step Four



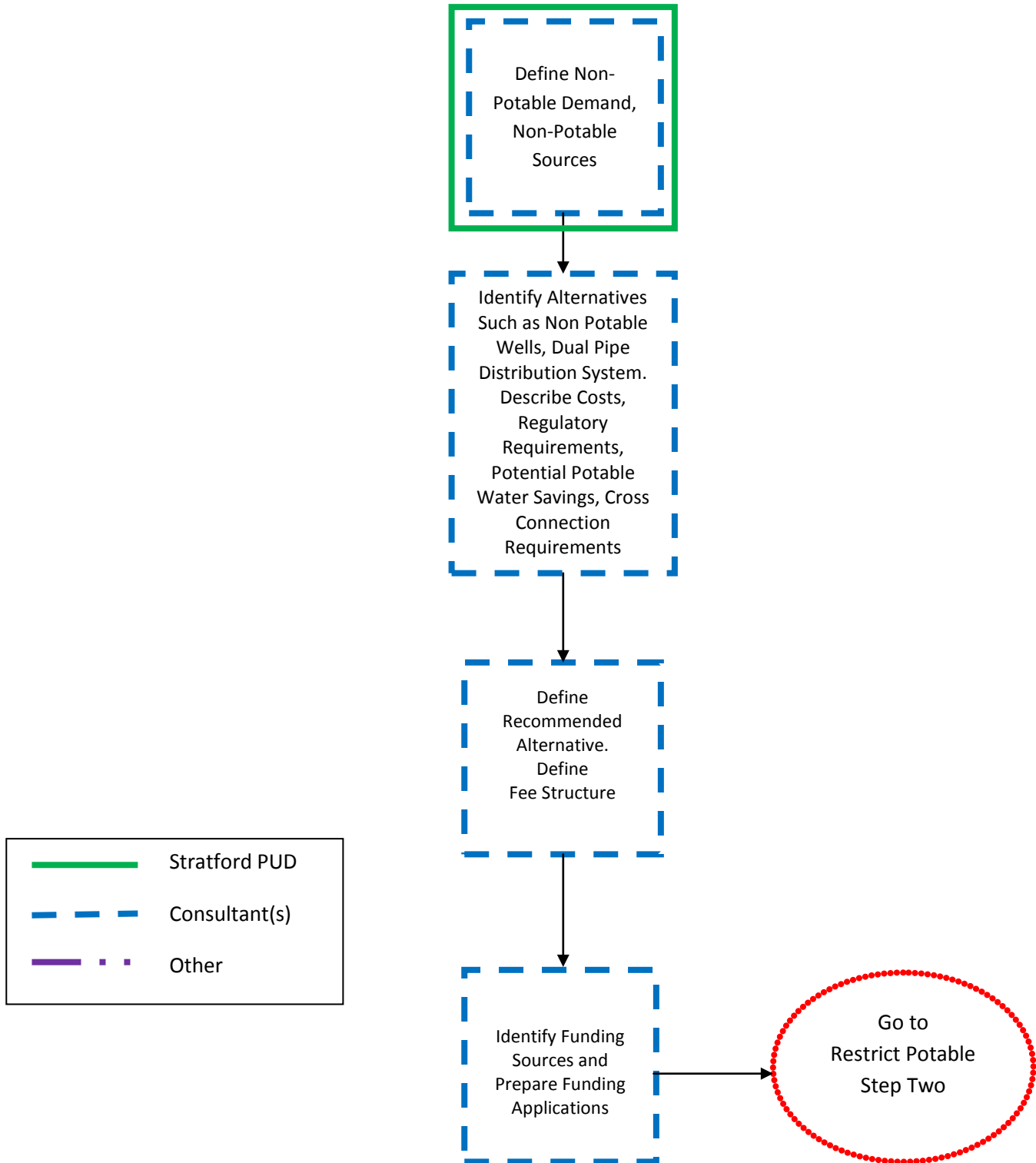




Stratford PUD

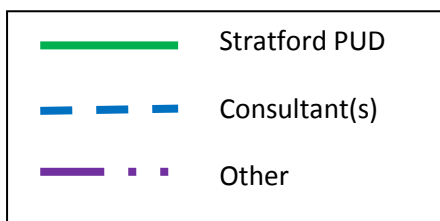
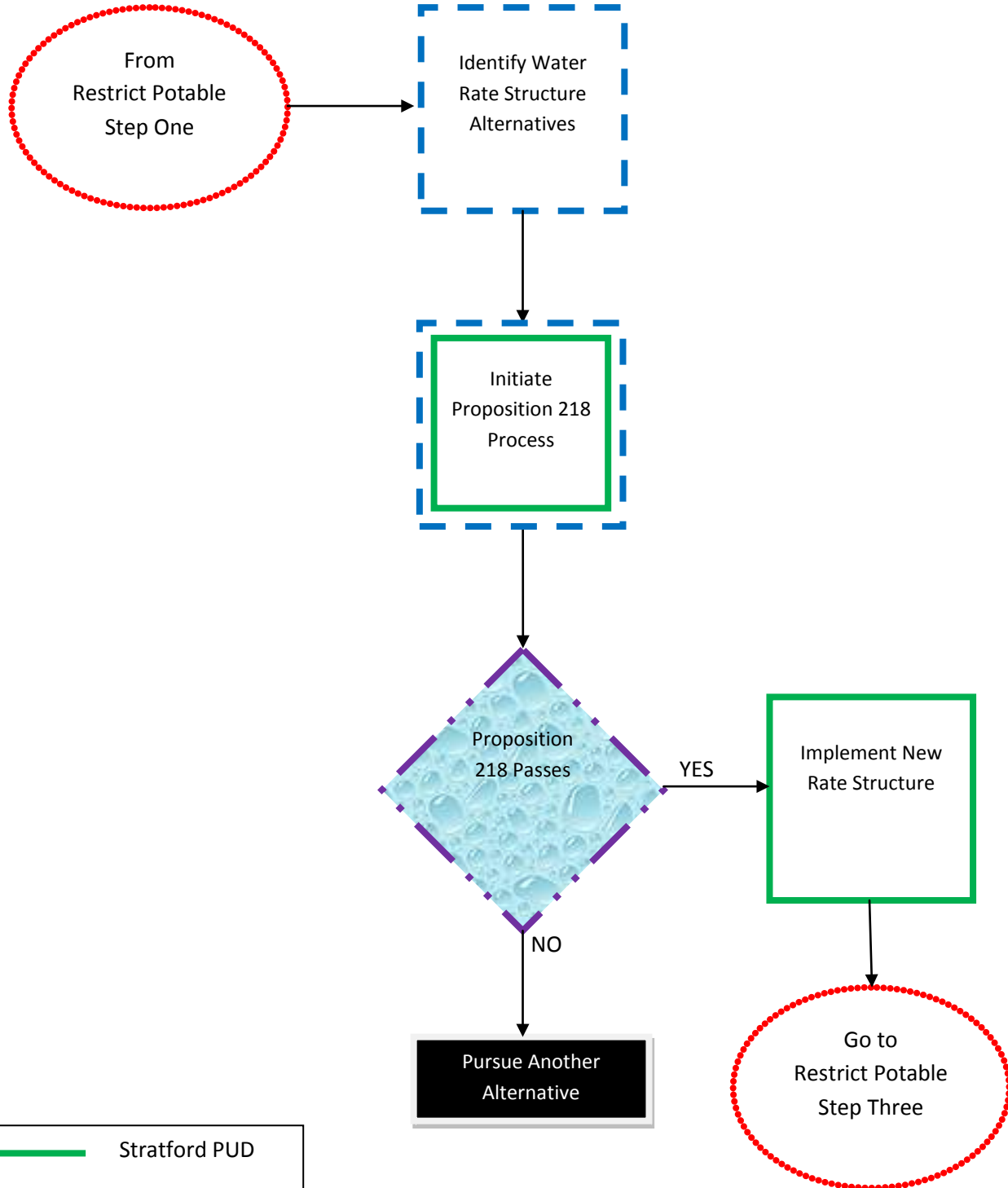
Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step One



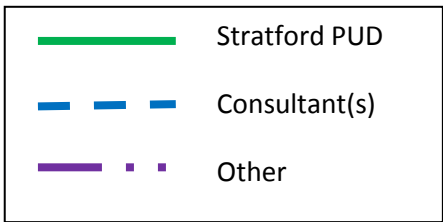
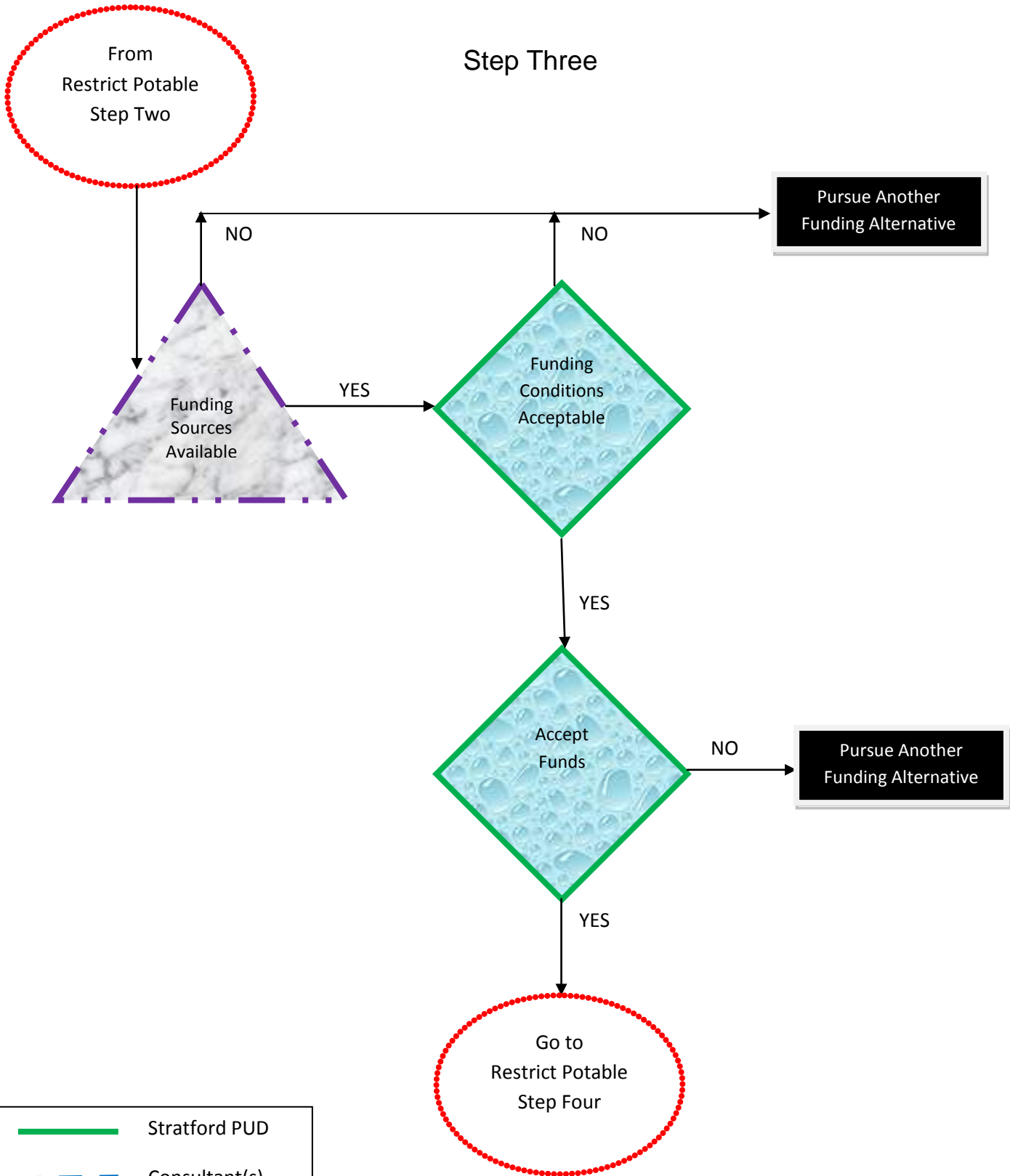
Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Two



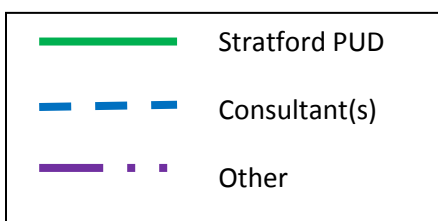
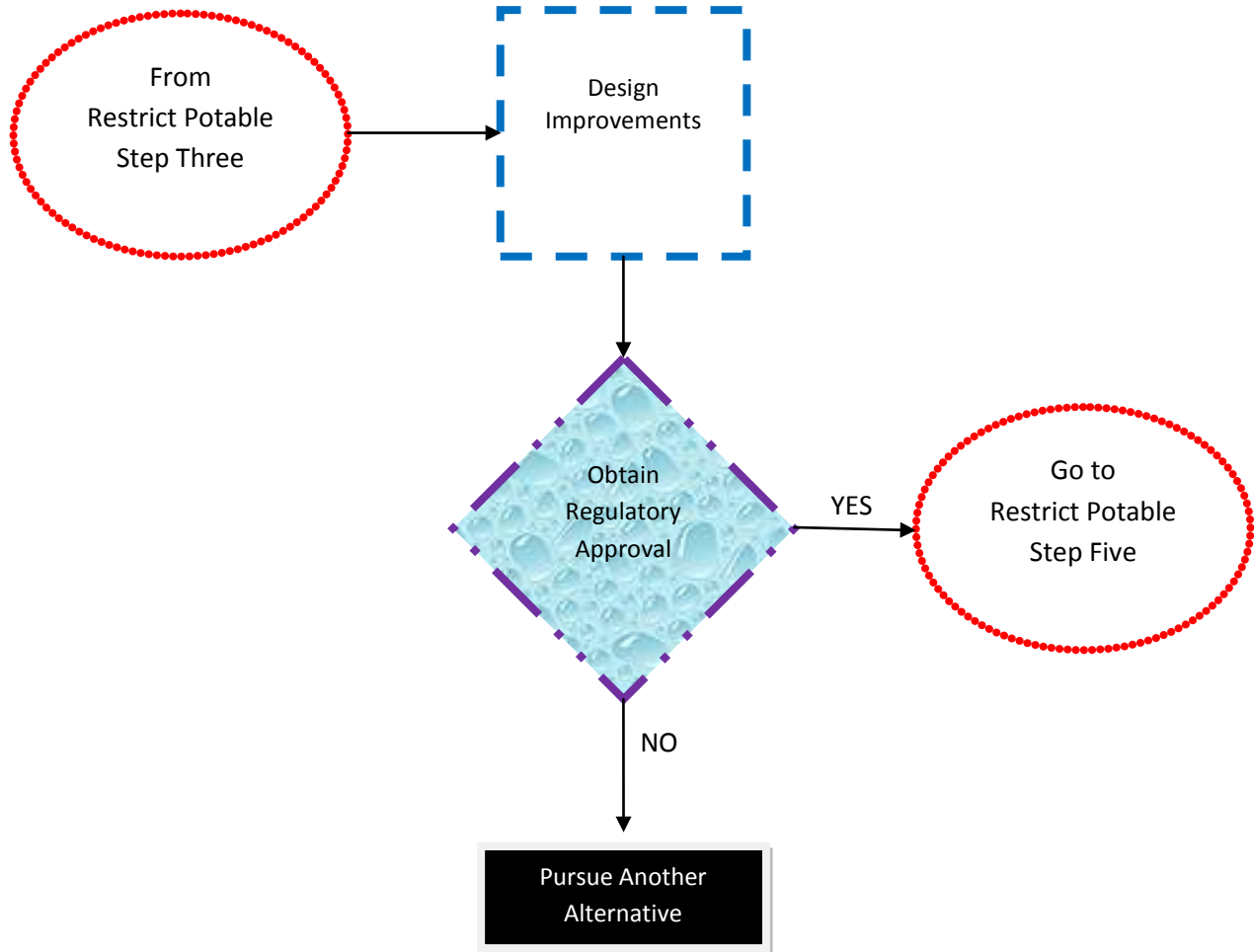
Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Three

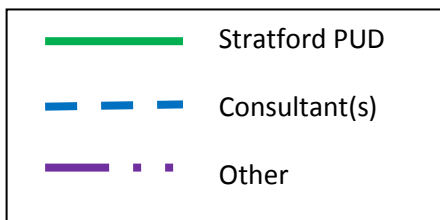
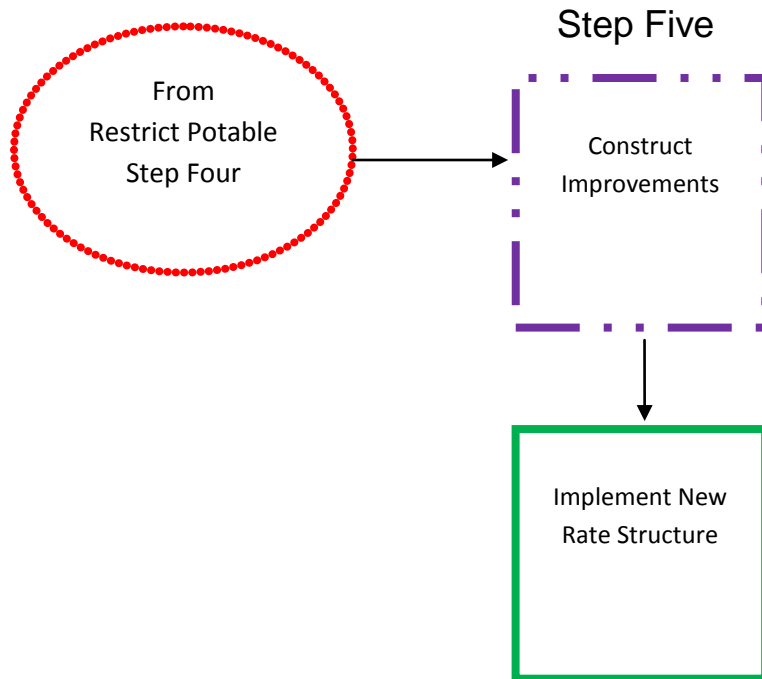


Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Four



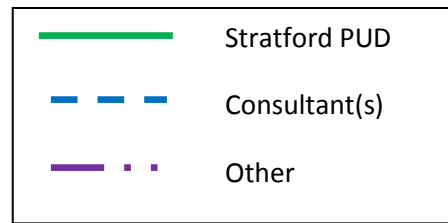
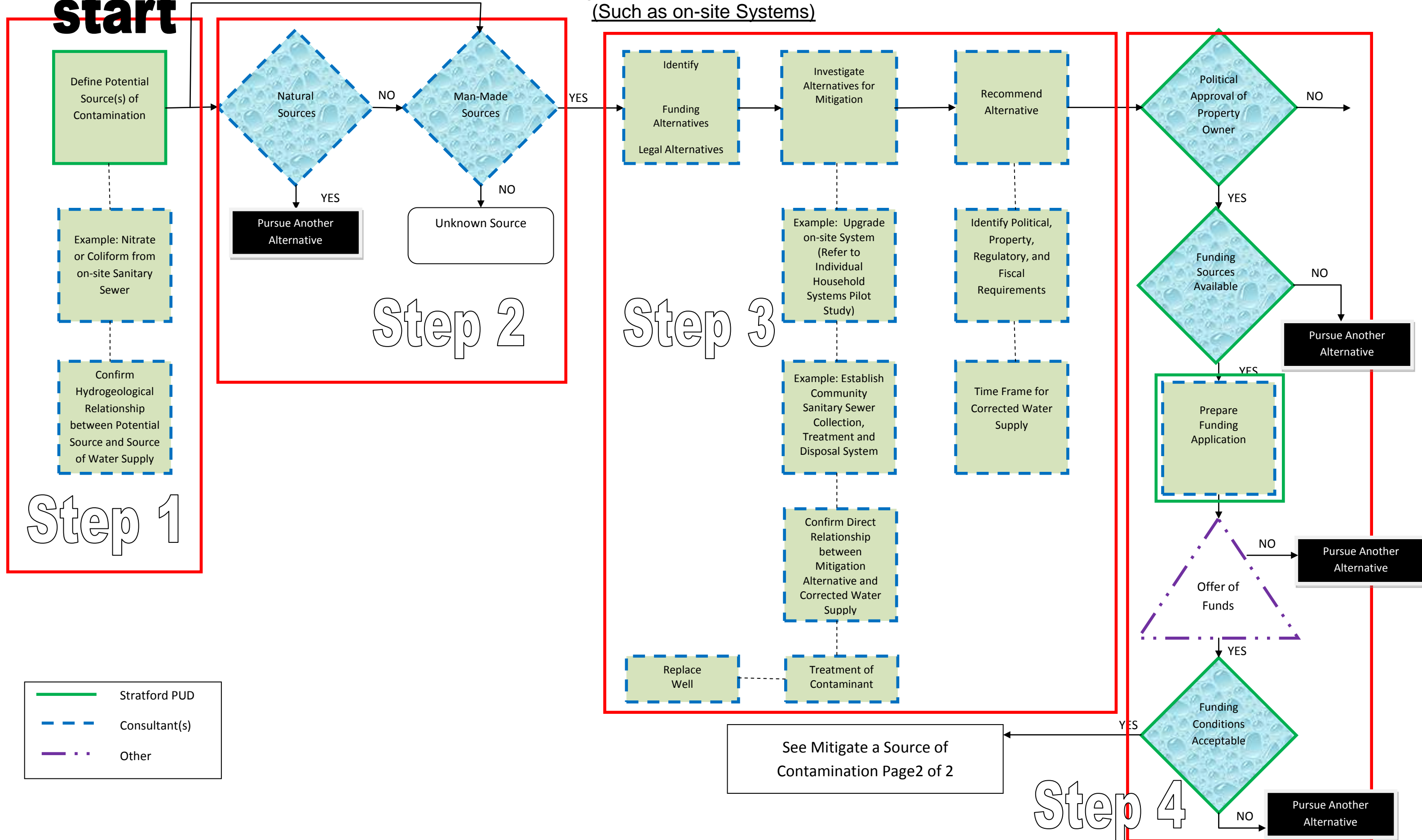
Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation



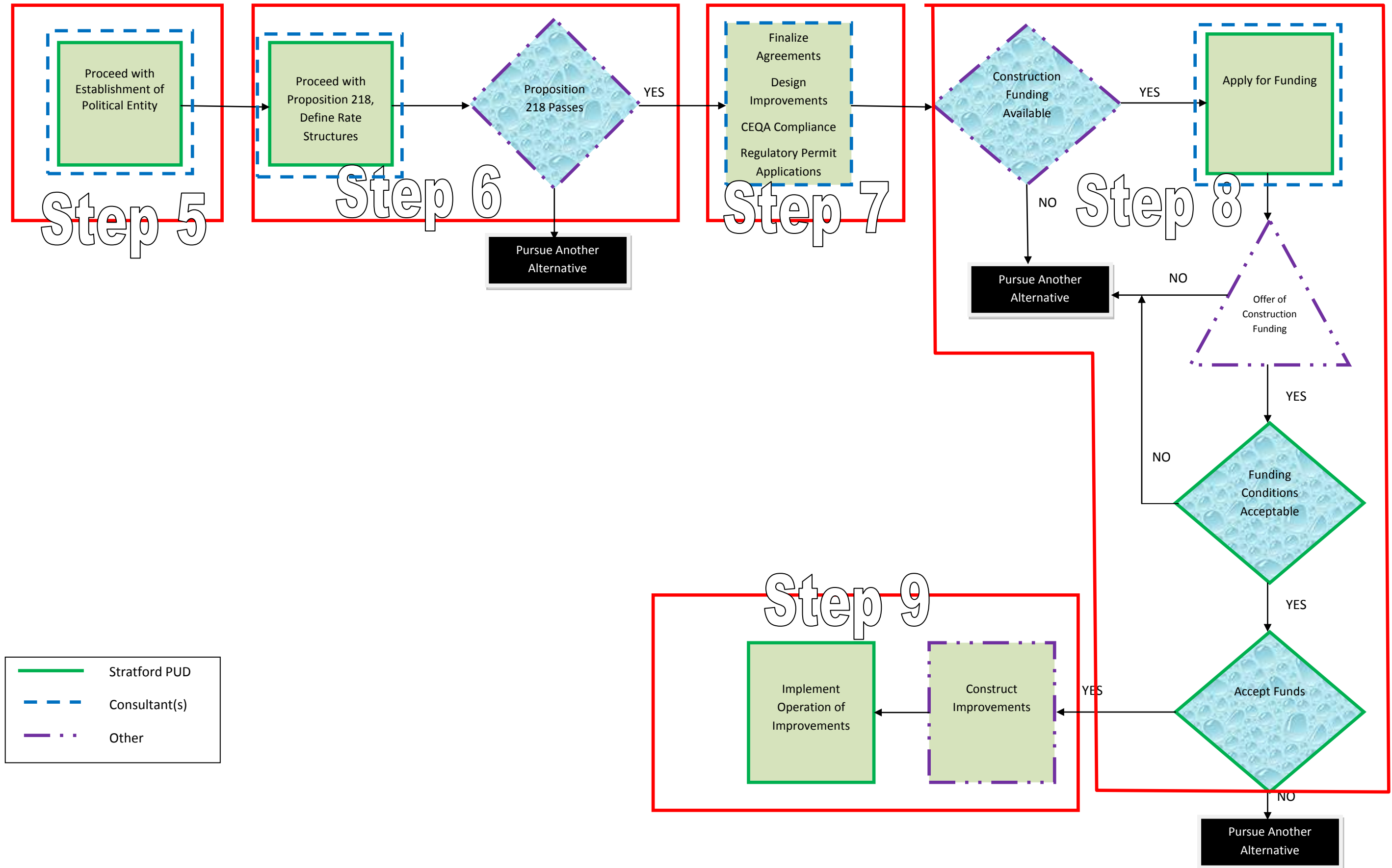
start

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

Stratford PUD



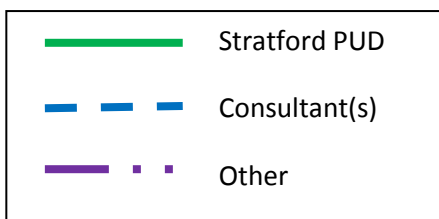
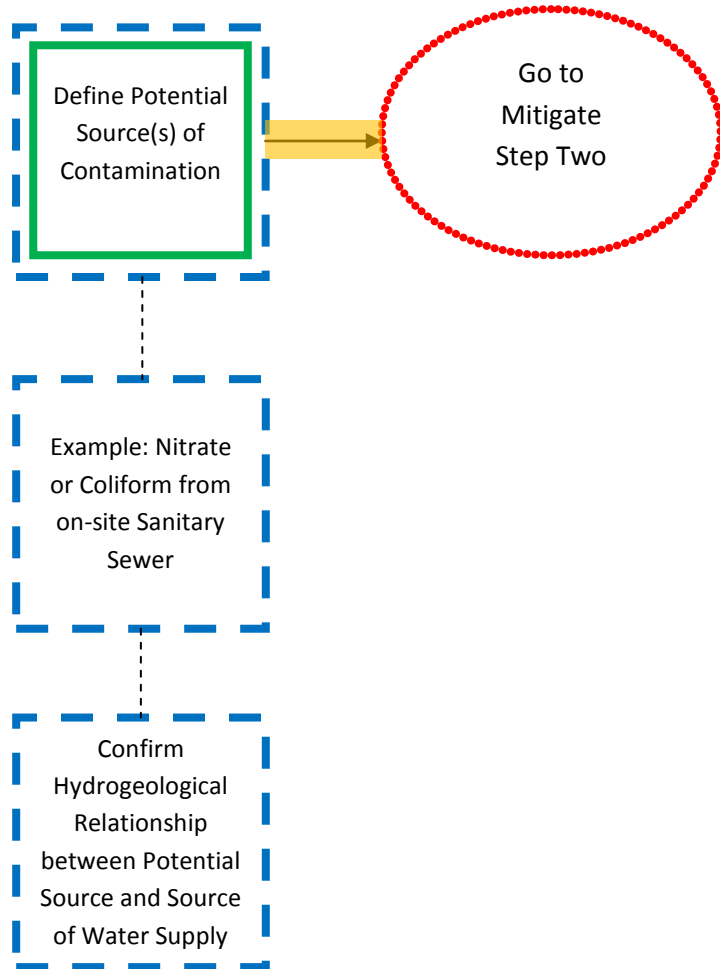
Mitigate a Source of Contamination
(Such as on-site Systems)



Stratford PUD

Mitigate a Source of Contamination

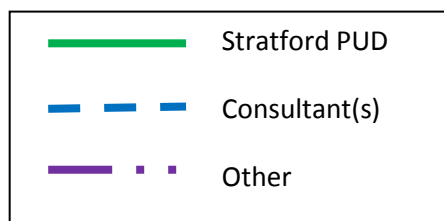
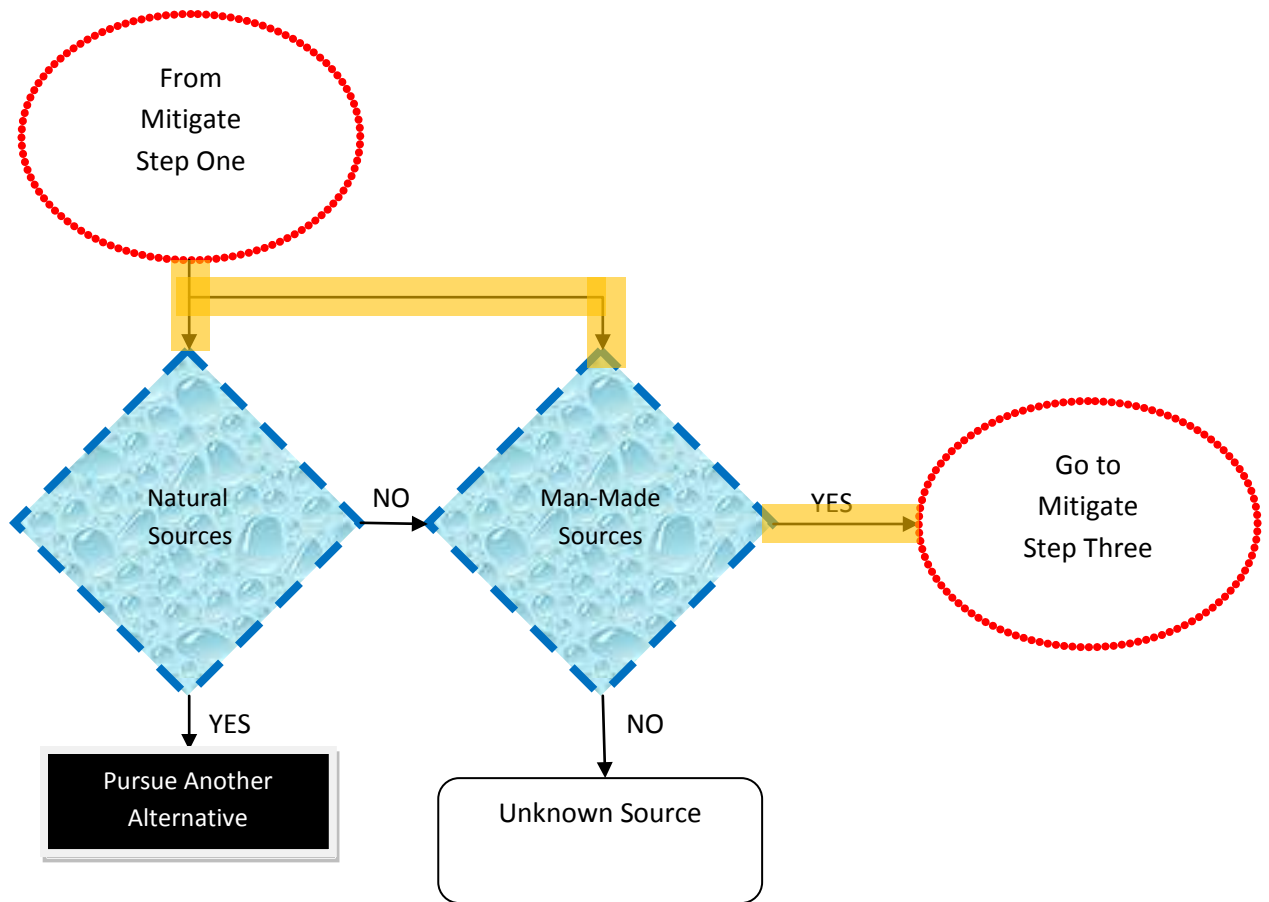
Step One



Stratford PUD

Mitigate a Source of Contamination

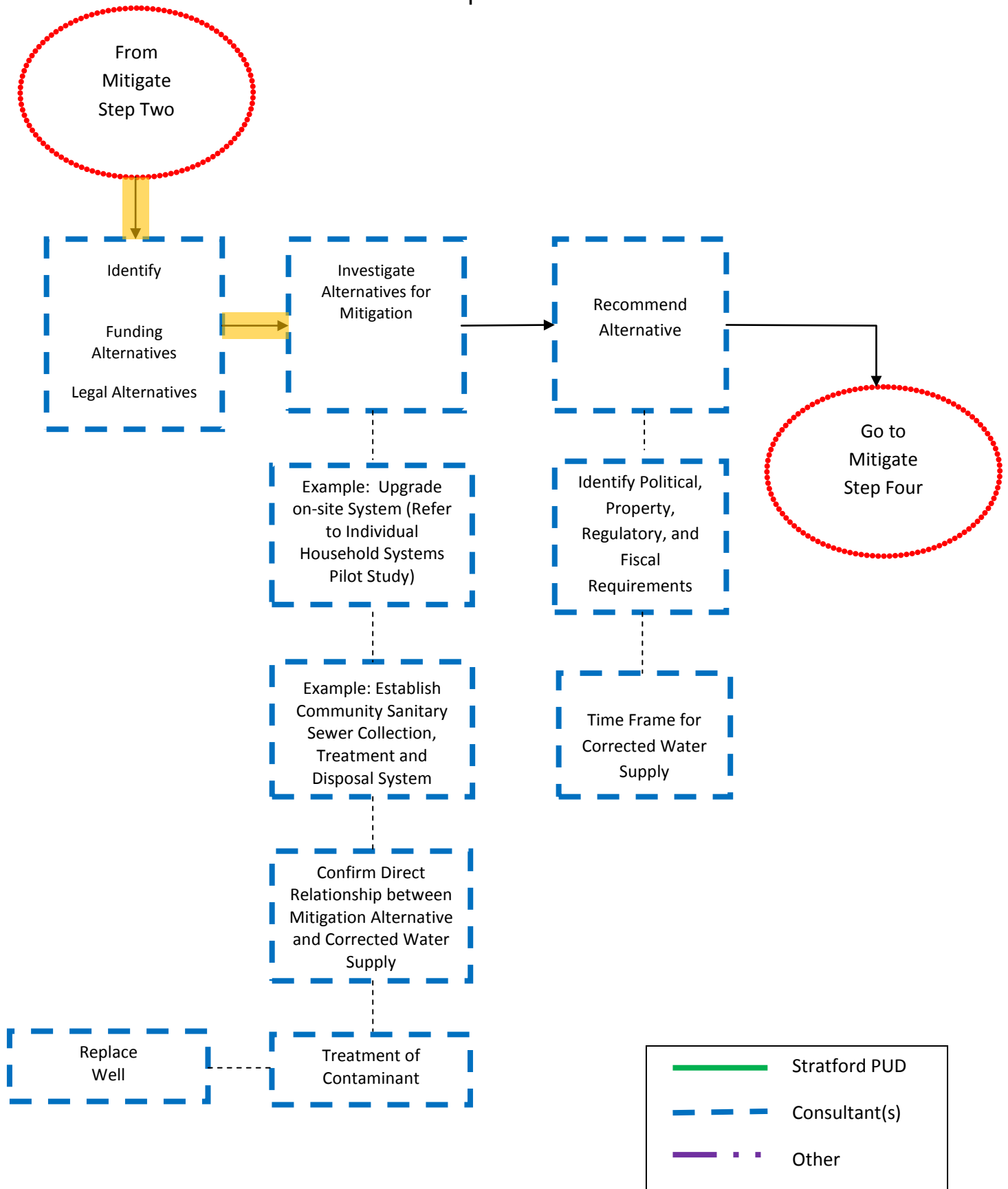
Step Two



Stratford PUD

Mitigate a Source of Contamination

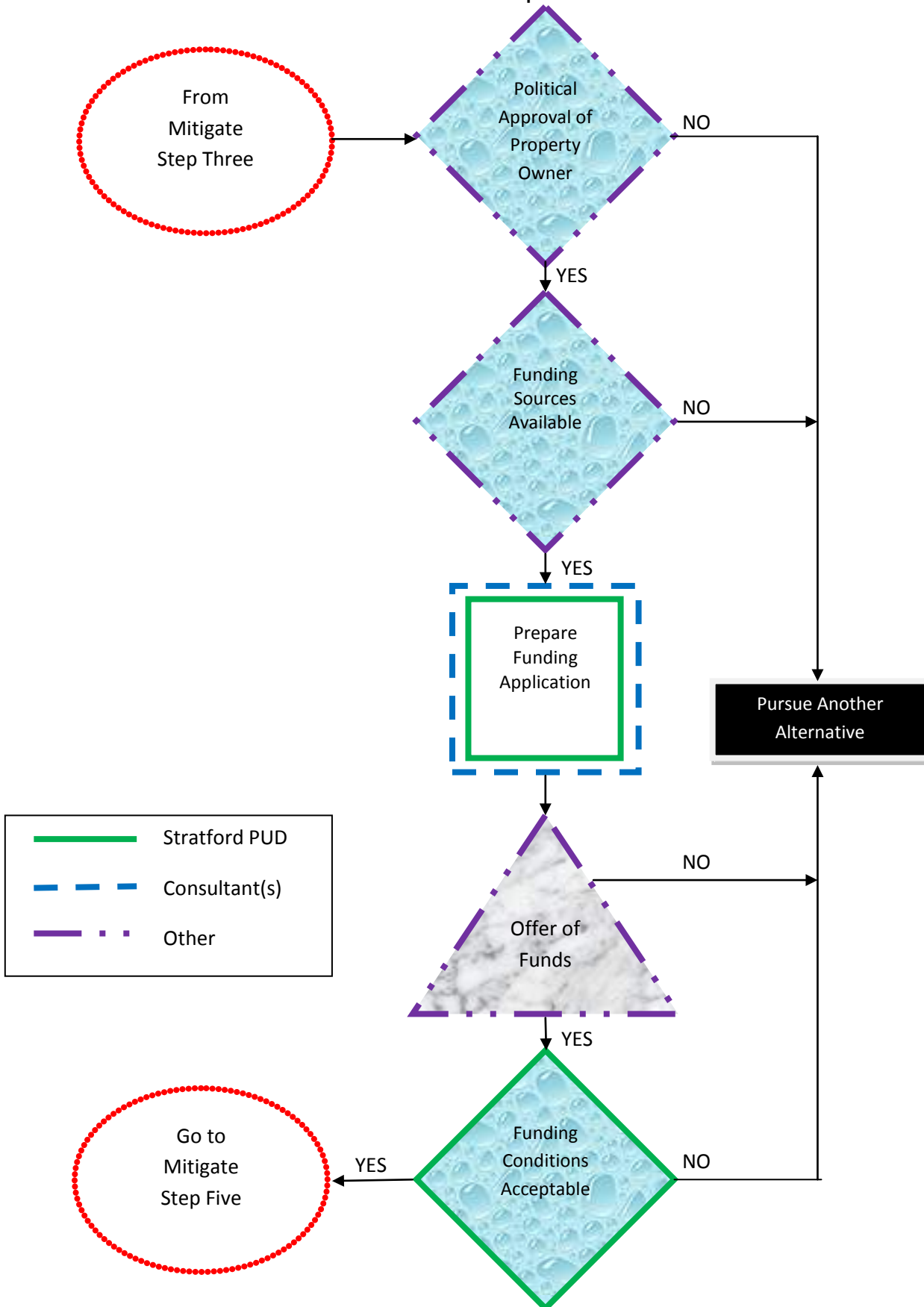
Step Three



Stratford PUD

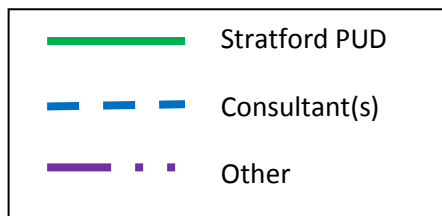
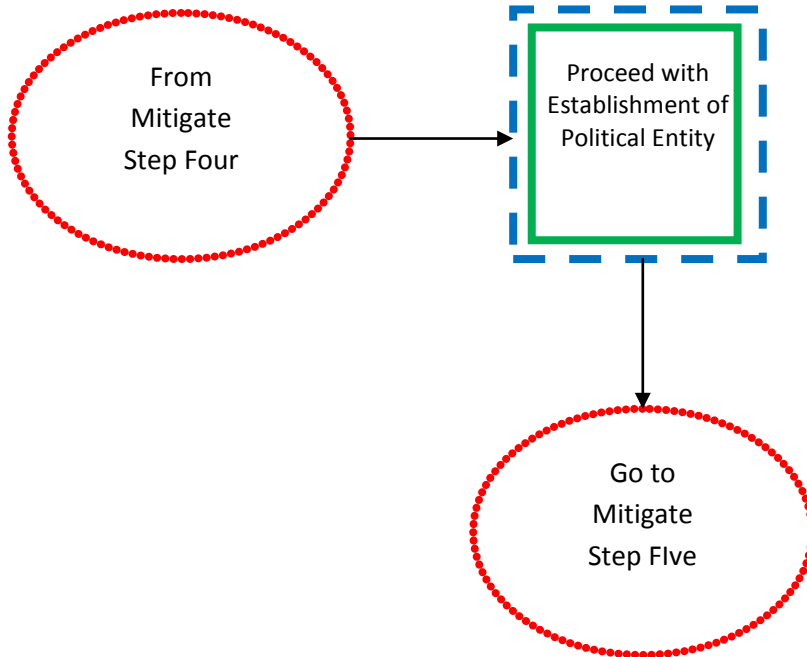
Mitigate a Source of Contamination

Step Four



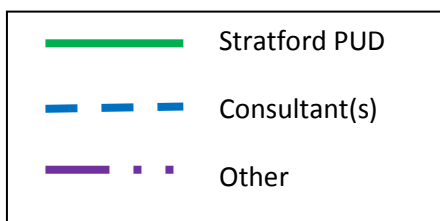
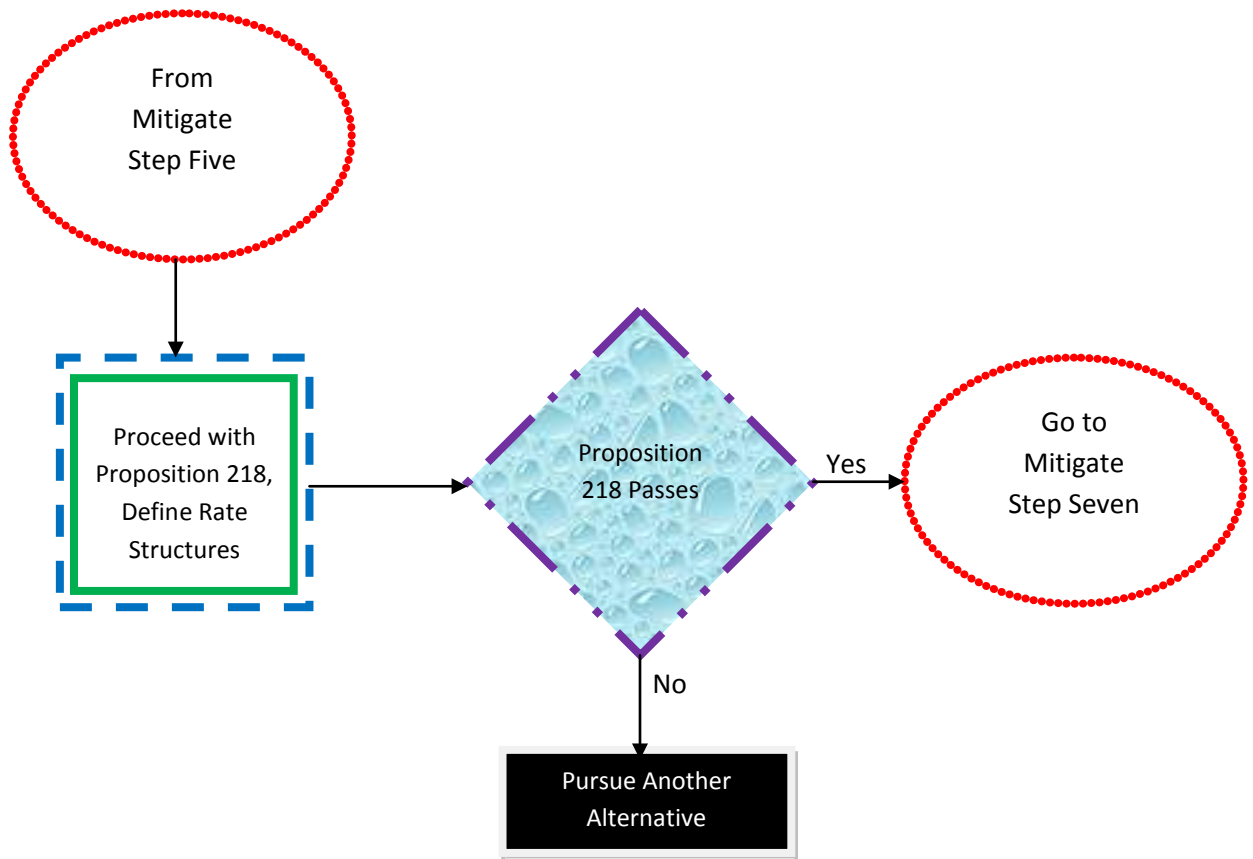
Stratford PUD
Mitigate a Source of Contamination

Step Five



Stratford PUD
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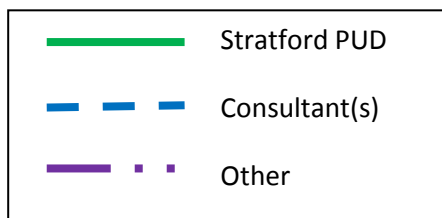
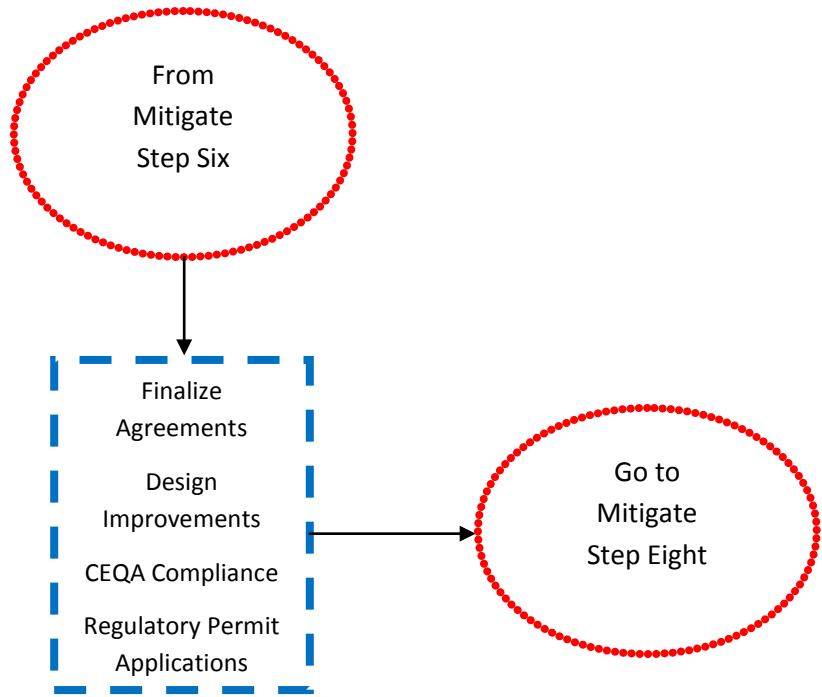
Step Six



Stratford PUD

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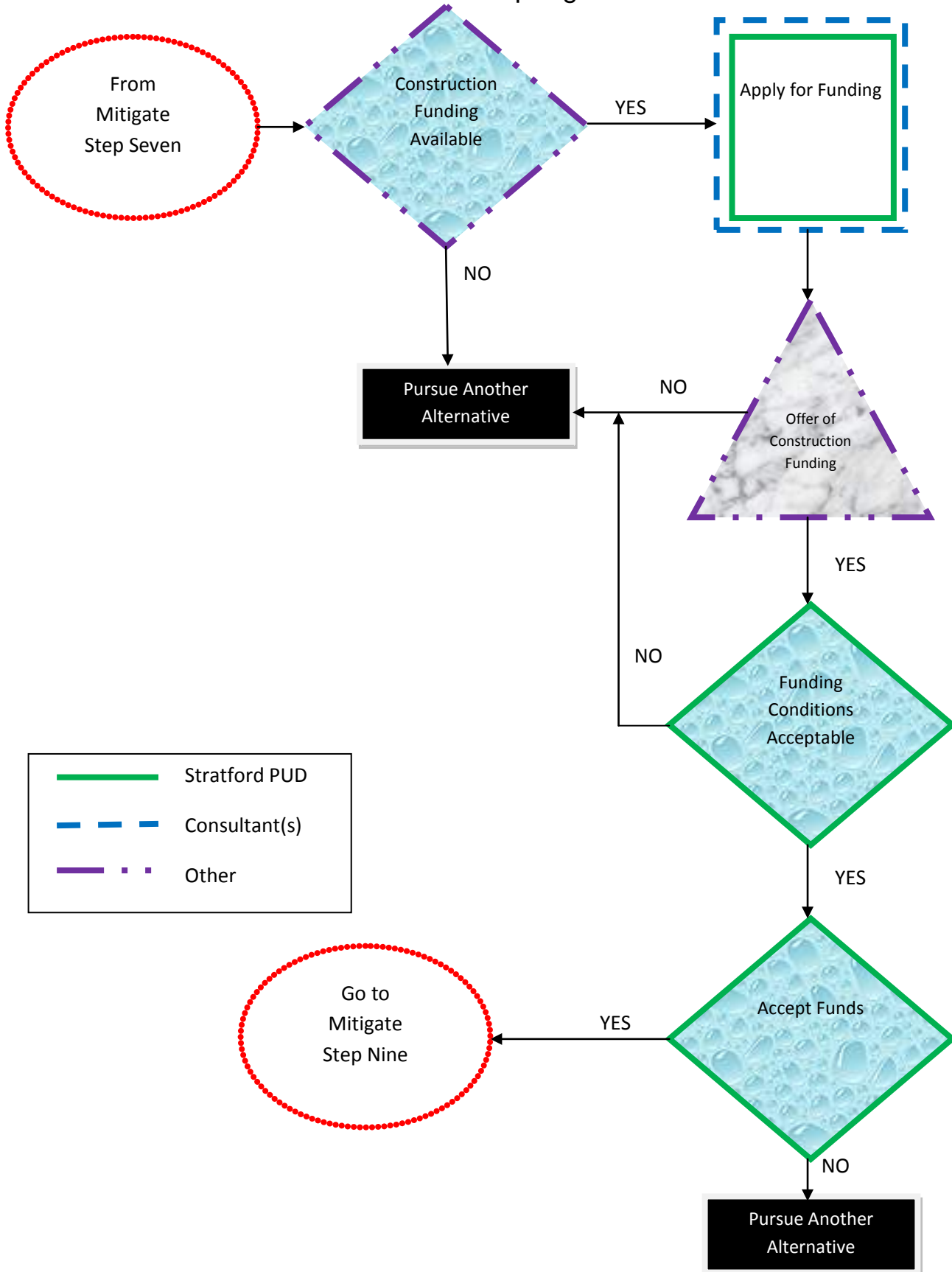
Step Seven



Stratford PUD

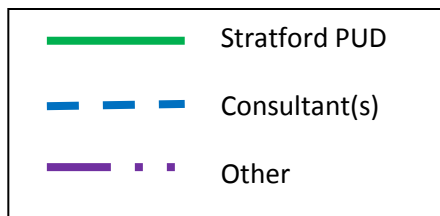
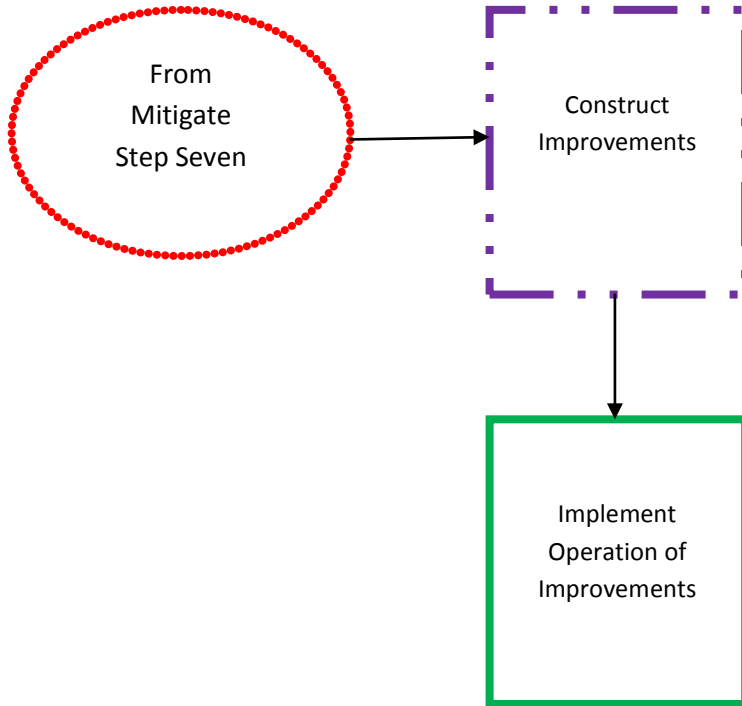
Mitigate a Source of Contamination

Step Eight



Stratford PUD
Mitigate a Source of Contamination

Step Nine



Appendix L

CDPH Technical, Managerial, Financial Report Requirements

**California Department of Public Health
Drinking Water Program**

TMF Assessment Form

ASSESSMENT TYPE: ☐ Funding Project ☐ New System ☐ Change of Ownership

WATER SYSTEM CLASSIFICATION: ☐ Community Water System
 ☐ Nontransient Noncommunity Water System
 ☐ Transient Noncommunity Water System

WATER SYSTEM INFORMATION

| |
|---|
| Water System Name: |
| Water System Number: |
| Water System Physical Address: |
| County: |
| District Office or Local Primacy Agency: |

PERSON COMPLETING THIS TMF ASSESSMENT

| | |
|----------------------------------|--------------------------------|
| Name: | Signature: |
| Title : | Date Submitted to CDPH: |
| Phone Number: | Email Address: |
| Company Name and Address: | |

MAIN WATER SYSTEM CONTACT PERSON INFORMATION

| | |
|--------------------------------------|-----------------------|
| Name: | Title: |
| Phone Number: | Email Address: |
| Water System Mailing Address: | |

TMF Assessment Instructions

In California the technical, managerial, and financial (TMF) assessment must be completed by public water systems that are applicants for California Department of Public Health (CDPH) funding programs, new water systems, and water system changes of ownership.

To complete this TMF assessment form refer to the guidance and explanations in the TMF Criteria document located on the CDPH web site at:

<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/TMFCommunityWaterSystems.aspx> .

If requested system information has already been provided with the funding application submittal or been provided directly to the CDPH district office or the LPA, note the location of that information on the assessment form in the comments space. Update information as circumstances change. Required documentation may be submitted electronically on a compact disk (if submission is electronic indicate on assessment).

For each TMF element described below place the required information in the appendix and identify it by the attachment number that corresponds to the TMF element number. For example, the documentation required for element number seven, Water Rights, should be identified in the appendix as Attachment 7, Water Rights. In addition, in the comments section of each TMF element list the actual documents that are provided in the appendix. For example, under the Water Rights comments section of this TMF assessment indicate that in the appendix Attachment 7 copies of the deeds to Wells 1 and 2 and the State Water Resources Control Board surface water permit are provided.

Under each TMF element below check the boxes where applicable. If the item is not applicable (NA), indicate NA to show that these items have been considered.

TMF Elements

1. Consolidation Feasibility

[Funding Projects, New Systems, Change of Ownership - **Mandatory**]

Each public water system applying for construction funding or a refinancing loan must perform an evaluation, including costs and feasibility, of physically consolidating with another public water system. Guidelines for when a consolidation is most feasible include, but are not limited to:

- when one of the water systems is located within another's established service area,
- when one of the water systems is within an existing General Plan's zone of influence of the other,
- Or when the water system is within five miles of another public water system.

If the water system applying for construction funding or a refinancing loan is a "small community water system" (which is defined as: a community water system that serves no more than 3,300 service connections or a yearlong population of no more than 10,000 persons) and the water system is considered "disadvantaged" (which is defined as: the entire

Water System Number _____

Rev. 4/2010

service of area of a community water system, or a community therein, in which the median household income is less than 80 percent of the statewide average), consolidation is *highly encouraged* and the water system may be allowed funding for a consolidation feasibility study and/or may be giving priority when seeking construction funding.

- ☐ List all large water systems and the number of connections that are within five miles of the system.

Record NA if there is no water system in the vicinity.

☐ NA

- ☐ Submit a consolidation assessment that includes the name of all water systems contacted, and the results of any consolidation discussions conducted with at least one system within the five mile radius. ☐ NA

Comments _____

2. System Description

[Funding Projects - **Necessary**; New Systems and Change of Ownership - **Mandatory**]

Provide a system map that illustrates the location of all of the components of the water system including the:

- ☐ Current service area boundary
- ☐ Sources
- ☐ Treatment facilities
- ☐ Pumping stations
- ☐ Pressure zones
- ☐ Storage tanks
- ☐ Potential contamination hazards
- ☐ Projected ten-year growth boundaries

☐ NA
☐ NA
☐ NA
☐ NA
☐ NA
☐ NA

Comments _____

3. Certified Operators

[Funding Projects - **Necessary**; New Systems and Changes of Ownership- **Mandatory**]

The regulating agency has determined that this water system needs a:

- ☐ Certified distribution operator, Grade _____
- ☐ Certified treatment operator, Grade _____

☐ NA
☐ NA

Water System Number _____

- ☐ Provide copies of current certificates with operator names and grades as documentation that the distribution and treatment operators are certified for the appropriate level that is required for the water system.
- ☐ For a contract certified operator, provide a copy of the contract that describes the: ☐ NA
- Level of certification that the operator will be required to maintain
 - Specific duties for which the operator will be responsible
 - Time to be spent serving the water system
 - Procedures to follow for complaints, compliance discrepancies, and emergencies

Comments _____

4. Source Capacity

[Funding Projects - **Necessary**; New Systems and Changes of Ownership - **Mandatory**]

At all times a water system must have the capacity to meet the system's maximum day demand and to ensure that it has suitably adequate sources of water supply to serve the needs of its constituents in the future. Develop and submit the following:

- ☐ Documentation which demonstrates that the water system has a sufficient water supply as described in California Code of Regulations, Section 64554.
- ☐ A water conservation plan to address potential drought conditions.
- ☐ A plan to install water meters on all connections as well as a master meter on each source in order to accurately measure water consumption. [Note that all water systems applying for CDPH funds must consider the feasibility of installing meters at each service connection that lacks a meter. Additionally, the funding requirements for the project must include conditions that the system will incorporate provisions into its operating procedures and expenses to read the meters and to charge rates based on usage.
- ☐ N/A – System is metered
- ☐ A map of the existing service area and surrounding locations that includes the location of all water sources as well as sources of potential contamination such as waste disposal sites, landfills, feedlots, underground storage tanks, out-of-service wells, and other potential contaminants.
- ☐ Documentation that demonstrates the water sources are protected from vandalism, tampering, contamination, or other threats.
- ☐ Ten year potential growth plans consistent with local land use plans and projected water demand. Describe how the system will ensure that potential water sources will meet all water quality standards.

☐ A plan to start the process to obtain additional water rights for new water sources if needed. ☐ NA

Comments _____

5. Operations Plan

[Funding Projects-**Necessary**; New Systems and Changes of Ownership- **Mandatory**]

An operations plan describes all of the activities needed to maintain the system in compliance with all standards. Operations plans need to be updated whenever changes occur. The date of the latest operations plan review was _____.

Provide an operations plan that describes the tasks that would enable another qualified operator to assume the operation of the system in an emergency. Include tasks that will be completed:

- ☐ Daily
- ☐ Weekly
- ☐ Monthly
- ☐ Yearly

Include non-routine activities relating to:

- ☐ Positive analytical results
- ☐ Complaints
- ☐ Emergency operational practices
- ☐ Record keeping
- ☐ Other duties

Templates for a number of sample operations plan can be found on the CDPH web site at:

<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/TMF.aspx>

Comments _____

6. Training

[Funding Projects, New Systems, and Changes of Ownership - **Necessary**]

Submit a plan describing the training that will be provided to ensure that everyone associated with the water system has the knowledge to competently comply with existing requirements and to be informed about new compliance requirements, new technologies, and newly identified hazards. The plan needs to describe the training for the following:

Water System Number _____

- ☐ Certified operators: Contact hours needed to maintain operator certification at the required grade for the system and other related training.
- ☐ Governing board and managers: Training that covers board and management roles and responsibilities including ethics and financial management.
- ☐ Other staff: Pertinent training to enable all staff to competently perform activities necessary to the operation and maintenance of the system.

Comments _____

7. Ownership

[Funding Projects; New Systems, and Changes of Ownership - **Mandatory**]

Ownership must be clearly identified for all components of the water system. Check the type of water system ownership:

- ☐ Sole proprietorship
- ☐ Partnership
- ☐ Corporation
- ☐ Mutual
- ☐ Governmental agency
- ☐ Other formation type

A copy of the deed for any well locations may document both ownership and water rights. Provide the following ownership documentation as hard copies or in electronic format:

- ☐ Formation papers such as incorporation articles, partnership documentation, by-laws, and governing ordinances. ☐ NA
- ☐ Deeds and other ownership documentation of all system property including land, buildings, wells, storage tanks, treatment facilities, and other system components. ☐ NA
- ☐ Easements, leases, or agreements for long term use regarding land or system components that are not owned by the water system. Specify the duration of the authorization. ☐ NA
- ☐ Encumbrances, trust indentures, bankruptcies, decrees, legal orders, or other items that may affect the owner's control of the water system. ☐ NA
- ☐ If the water system is under temporary ownership such as a developer, describe the timing for the change in ownership and the contact information for the eventual owner. ☐ NA
- ☐ If the owner of the water system has owned or managed any other public water system within the last ten years, list these systems by name and number. ☐ NA

- ☐ For a sole proprietor submit a plan that describes how the system will continue to be operated in the event the owner becomes incapable of carrying out this responsibility. ☐ NA

Comments _____

8. **Water Rights**

[Funding Projects; New Systems, and Changes of Ownership - **Mandatory**]

Provide the following documentation as hard copies or electronic format:

- ☐ List the current and emergency water sources that will be used to operate the system including groundwater, surface water, purchased water, and any other sources.

- ☐ Describe the long-term availability of the sources used by the water system to meet a projected 10-year water demand. _____

Groundwater: ☐ Yes ☐ No

- Unadjudicated Basin: Provide the following: ☐ NA
 - ☐ A statement that the groundwater is extracted from a basin that is not adjudicated.
 - ☐ Copies of the deeds for the parcels of each unadjudicated groundwater source used by the system.
- Adjudicated Basin: Attach the deed for the parcels of each adjudicated groundwater source that notes the adjudication or provide documentation of the Basin Water Master's terms of the adjudication as they relate to the water system's right to extract water from the adjudicated basin. ☐ NA

Surface Water: ☐ Yes ☐ No

Circle the type of water rights the water system holds for surface water from the list below:

- a. Appropriative
 - 1) Pre-1914
 - 2) State Water Resources Control Board (SWRCB) Permit or License

Water System Number _____

b. Riparian

Appropriative

- ☐ If Pre-1914, provide a statement that water rights were established prior to 1914. ☐ NA
- ☐ If after 1914, provide a copy of the SWRCB water rights permit or license. Note that an application to the SWRCB does not document water rights. ☐ NA

Riparian

- ☐ Provide a statement that water is derived from a surface source pursuant to a riparian right. ☐ NA

Purchased Water: ☐ Yes ☐ No__

- ☐ Provide a copy of the water service agreement for purchased water that specifies the duration of the authorization. Note that for funding projects the long term use agreements must extend for the life of the loan or a minimum of 20 years for grant funded projects. ☐ NA

Comments _____

9. Organization

[Funding Projects – **Necessary**; New Systems, and Changes of Ownership - **Mandatory**]

In order to establish the lines of authority and communication between employees and management including the governing board, managers, certified operators, and clerical staff, provide a:

- ☐ Structural organizational chart for positions associated with the water system that indicates the lines of authority. Specify the frequency of board meetings where appropriate.
- ☐ Separate chart that lists the names and phone numbers of the specific people who fill those positions. Update this information as needed.
- ☐ List on the organization charts information on any contract certified operators the system may utilize. Indicate the level of certification and the number of hours for which the services of a certified operator are contracted. ☐ NA

Comments _____

10. Emergency Response Plan

Water System Number _____

[Funding Projects – **Necessary**, New Systems, and Changes of Ownership - **Mandatory**]

A sample emergency response plan template is located on the CDPH website at:

http://www.cdph.ca.gov/certlic/drinkingwater/Documents/TMFplanningandreports/EmergencyResponsePlan_revised.doc

Ensure that the emergency response plan for the water system includes:

- ☐ A list of all disasters and emergencies that is likely to occur in the water system's service area. Include earthquakes, fires, and disinfection failure at minimum as well as flooding, water outages, water contamination, power outages, and other potential local emergencies.
- ☐ The names and contact information of water system personnel including the decision makers. Identify responsibilities, and provide a clear chain of command.
- ☐ An inventory of system resources used for normal operations and available for emergencies including maps and schematic diagrams, lists of emergency equipment and suppliers, emergency contract agreements, and emergency water interconnections or sources.
- ☐ A communication network that describes a designated location for an emergency operations center, emergency contact information for equipment suppliers, emergency phone and radio communication capabilities, coordination procedures with governmental agencies for health and safety protection, technical and financial assistance, and public notification procedures.
- ☐ Emergency procedures to quickly assess damage to water system facilities including logistics for emergency source activation and repairs, procedures for monitoring progress of repairs and restoration, and procedures for documenting damage and repairs.
- ☐ Describe steps that will be taken to resume normal operations and to submit reports to appropriate agencies.

Comments _____

11. Policies

[Funding Projects; New Systems, and Changes of Ownership - **Necessary**]

- ☐ A policy manual has been adopted that describes procedures pertinent to the management of the water system. At a minimum the policies described should cover:
 - a. Nonpayment of water charges
 - b. Unauthorized use of water
 - c. Hours worked and overtime

Water System Number _____

- d. Complaint responses
- e. Contract operators, if applicable
- f. Governing board activities such as regulatory responsibilities, expenditure allowances, meeting notifications, resolution adoptions, and other issues as applicable

Comments _____

12. Budget Projection / Capital Improvement Plan

[Funding Projects; New Systems, and Changes of Ownership - **Mandatory**]

Use the sample 5-year budget projection/capital improvement plan (CIP) template, or an equivalent alternative, that is located on the CDPH website at <http://www.cdph.ca.gov/certlic/drinkingwater/Documents/TMFplanningandreports/swsbudgetcalculator-CIPandMinRateGen.xls> . This file consists of guidelines for completing this spreadsheet on the first Excel tab, the 5-year budget projection on the second tab, and the CIP on the third tab.

Submit the following:

- ☐ 5-Year budget projection/CIP template
- ☐ Documentation that reserve funds have been created for the CIP, operations and maintenance expenses, potential emergency needs, and any other reserve accounts necessary for the management of the system.
- ☐ Documentation of the current rate structure. ☐ NA
- ☐ Documentation of the average annual cost of water per connection for the last calendar year. ☐ NA
- ☐ Documentation that revenues cover expenses including the CIP reserve, or describe the plan to increase revenues to cover these expenditures? ☐ NA
- ☐ Where appropriate, include the Proposition 218 voter approval process that will be followed if a rate increase is planned. ☐ NA
- ☐ For investor owned systems documentation from the California Public Utilities Commission of an approved budget, CIP, and rate schedule. ☐ NA
- ☐ NEW SYSTEMS OR FUNDING PROJECTS ONLY: Proposed rate structure. ☐ NA
- ☐ NEW SYSTEMS OR FUNDING PROJECTS ONLY: Estimated average annual cost of water per connection based on the proposed new funding amount. ☐ NA

Comments _____

Water System Number _____

13. Budget Control

[Funding Projects - **Necessary**; New Systems, and Changes of Ownership - **Mandatory**]

A financial policy that includes:

- ☐ Budget control procedures in which one person records a transaction and a manager review and approves it. Describe budget controls for:
 - a. Cash receipts and disbursements
 - b. Bank accounts
 - c. Payroll
- ☐ Financial reports prepared for review by governing board such as:
 - a. Customer Receivables Report
 - b. Check Register Review
 - c. Bank Reconciliation Report
 - d. Budget Comparison Report
 - e. Quarterly Comparative Balance Sheet
 - f. Tax Returns
- ☐ Criteria and withdrawal guidelines for the maintenance of reserve accounts including:
 - a. CIP Reserve
 - b. Operations and Maintenance Reserve
 - c. Contingency or Emergency Reserve
 - d. Other Reserves
- ☐ Reporting procedures to appropriate levels of authority to ensure that there is no commingling of revenue sources. ☐ NA
- ☐ Periodic reviews of the budget status by a Certified Public Accountant or appropriately qualified financial officer of the water system to ensure continuing financial viability. Three years of the most current audited financial reports must be submitted for all CDPH funding projects. ☐ NA

Comments _____

TMF Staff Evaluation Form

Change of Ownership or New Water System

| | |
|---|----------------------------|
| Water System Name: | System Number: CA _____ |
| Assessment Type: <input type="checkbox"/> Change of Ownership <input type="checkbox"/> New Water System | |
| District: | TMF Assessment Date: |
| Evaluation Performed By: | Staff Evaluation Date: |

Has the water system demonstrated capacity in the following elements per the TMF Assessment Form?

Mandatory TMF Elements

- | | | | |
|--------------------------------------|------------------------------|-----------------------------|-----------------|
| 1. <u>Consolidation Feasibility:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 2. <u>Ownership:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 3. <u>Water Rights:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 4. <u>Budget/CIP</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 5. <u>Budget Control:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 6. <u>System Description:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 7. <u>Certified Operators:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 8. <u>Source Capacity:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 9. <u>Operations Plan:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 10. <u>Organization:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 11. <u>Emergency Response Plan:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |

Necessary TMF Elements

- | | | | |
|----------------------|------------------------------|-----------------------------|-----------------|
| 12. <u>Training:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |
| 13. <u>Policies:</u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | comments: _____ |

All Necessary TMF Elements that have not been satisfied:

☐ Will be a permit condition to be completed within six months of the TMF assessment date.

CDPH or LPA Staff Name: _____

Signature & Date: _____

Appendix M

Self Assessment Worksheet

APPENDIX I: SELF ASSESSMENT

WORKSHEET

STEP 1 – RATING ACHIEVEMENT AREAS

Assess your system by rating your current level of achievement for each management area. Consider how effectively your current management efforts support each of the areas, and note that each management area has several dimensions (represented by the bullet points listed for each). Your rating should reflect the dimension with the lowest level of achievement.

Scale from low achievement to high achievement:

- Select **Low** if your system has no workable practices in place for addressing this area – very low capacity and performance.
- Select **Medium** if your system has some workable practices in place with moderate achievement, but could improve – some capacity in place.
- Select **High** if your system has effective, standardized, and accepted practices in place. It either usually or consistently achieves goals – capacity is high and in need of very little or no further development.

STEP 2 - RANKING PRIORITY AREAS

Rank the importance of each management area to your system. Base this ranking on your goals and the specific needs of your community. Your ranking may be influenced by current or expected challenges (e.g., if your community is experiencing elevated population growth rates, Water Resource Adequacy may be ranked as a high priority area to address). Again, note that each management area has multiple dimensions (represented by the bullet points listed) – your ranking should represent the highest priority of all of the points listed, and should be ranked independently of the achievement level (i.e., an area can remain, and therefore be ranked, as a high priority even if the utility is already undertaking needed improvement efforts).

Scale from low priority to high priority, keeping in mind the following:

- Current or expected challenges
- Customer or stakeholder impact (reliability, quality, timeliness)
- Consequences of not improving (non-compliance, increased cost, lost credibility, impacts to health and safety)
- Urgency (near or long term needs)
- Community priorities

TABLE A

| Key Management Area | Management Area Description | Step 1: Rate Achievement (Low – High) | Step 2: Rank Priority (Low – High) |
|--|--|--|---------------------------------------|
| 1. Water Resource Adequacy (e.g., water quantity) | <ul style="list-style-type: none"> My system is able to meet the water or sanitation needs of its customers now and for the reasonable future. My utility or community has performed a long-term water supply and demand analysis. (Applies to drinking water systems only.) My system understands its relationship to local water availability. (Drinking water utilities should focus on utilization rates relative to any local water stress conditions, wastewater utilities should focus on return flows.) | | |
| 2. Product Quality (e.g., clean & safe water) | <ul style="list-style-type: none"> My system is in compliance with permit requirements and other regulatory or reliability requirements. My utility meets local community expectations for the potable water and/or treated effluent and process residuals that it produces. | | |
| 3. Customer Satisfaction | <ul style="list-style-type: none"> Customers are satisfied with the services the system provides. My system has procedures in place to receive and respond to customer feedback in a timely fashion. | | |
| 4. Community Sustainability & Economic Development | <ul style="list-style-type: none"> My utility is aware of and participating in local and regional community and economic development planning activities. My utility's goals also help to support overall watershed and source water protection, and community economic goals. | | |
| 5. Employee & Leadership Development | <ul style="list-style-type: none"> Training programs are in place to retain and improve institutional knowledge. Opportunities exist for employee skills development and career enhancement. Job descriptions, performance expectations, and codes of conduct are established. | | |
| 6. Financial Viability | <ul style="list-style-type: none"> The rates that my utility charges are adequate to pay our bills, put some funds away for the future, and maintain, repair, and replace our equipment and infrastructure as needed. (O&M, debt servicing, and other costs are covered.) My utility discusses rate requirements with our customers, board members, and other key stakeholders. | | |
| 7. Operational Optimization (e.g., energy/water efficiency) | <ul style="list-style-type: none"> My utility has assessed its current energy usage and performed an energy audit. My utility has maximized resource use and resource loss (e.g., water loss, treatment chemical use). My utility understands, has documented, and monitors key operational aspects of the system (e.g., pressure, flow, quality). | | |
| 8. Infrastructure Stability (e.g., asset management) | <ul style="list-style-type: none"> My utility has inventoried its current system components, condition, and cost. My system has a plan in place for repair and replacement of system components. | | |
| 9. Operational Resiliency | <ul style="list-style-type: none"> My utility has conducted an all hazards vulnerability assessment (safety, natural disasters, environmental risks, etc.). My utility has prepared an all hazards emergency response plan. | | |
| 10. Stakeholder Understanding & Support | <ul style="list-style-type: none"> My system actively engages with local decision makers, community, watershed (where relevant), and regulatory representatives to build support for its goals, resources, and the value of the services it provides. My utility performs active customer and stakeholder outreach and education to understand concerns and promote the value of clean and safe water. | | |

STEP 3 - PLOT RESULTS

To compare your results for each management area, you will plot each pair (rating, ranking) in the grid below. For each management area, identify your high/medium/low rating in the green Step 1 box, and find the corresponding row in the table. Then, for the same management area, identify your high/medium/low ranking in the blue Step 2 box, and find the corresponding column in the table. The box where the row and column intersect is where you should place that management area (note the abbreviations below for use in the self assessment plot).

| | | | |
|----|---|----|-------------------------------------|
| WA | Water Resource Adequacy | FV | Financial Viability |
| PQ | Product Quality | OO | Operational Optimization |
| CS | Customer Satisfaction | IS | Infrastructure Stability |
| CE | Community Sustainability & Economic Development | OR | Operational Resiliency |
| ED | Employee & Leadership Development | SS | Stakeholder Understanding & Support |

TABLE B

| Rating (Achievement) | High | | | |
|-------------------------|--------|-----|--------|------|
| | Medium | | | |
| | Low | | | |
| | | Low | Medium | High |
| Ranking (Priority) | | | | |

STEP 4 - ANALYZE RESULTS

Examining the results of the plotting exercise in Step 3 can help identify management areas on which to focus improvement efforts. Management areas that fall into the **red box** are both very important and under-developed, meaning that they should be seen as a top priority for improvement. Management areas that land in the **yellow boxes** should be next on the list for improvement efforts, and those that fall into the **white boxes** are important to consider for long-term improvement efforts, but likely do not need to be prioritized for immediate action. The eventual goal for all systems should be high achievement in each of the management areas.

QUESTIONS TO CONSIDER:

- Where is my utility strong?
- Where is there the most room for improvement?
- What should my areas of focus be?
- Why are these areas priorities?