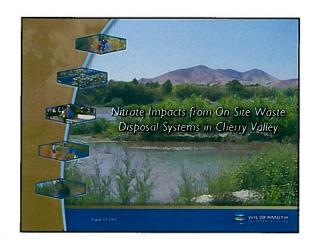


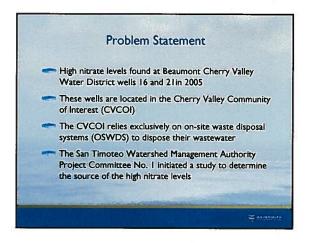
# BEAUMONT CHERRY VALLEY WATER DISTRICT Town Hall Meeting Concerning Special Election Measure B Concerning Water Quality Issues in Beaumont Cherry Valley Thursday, August 30<sup>th</sup>, 2007 – 7:00PM 10478 Beaumont Avenue, Cherry Valley

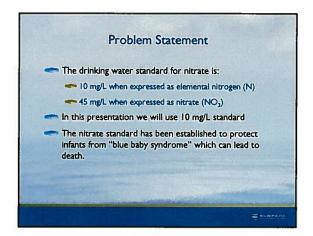
**Assistance for the Disabled:** If you are disabled in any way and need accommodation to participate in the meeting, please call Blanca Marin Administrative Assistant, at (951) 845-9581 Ext.23 for assistance so the necessary arrangements can be made.

- 1. Opening Remarks by Moderator (C.J. Butcher, General Manager)
- 2. Verbal Presentation by Legal Counsel of Redwine and Sherrill, Gil Granito Regarding the Legal Process Regarding Activation of Sanitation Powers—Measure B.
- 3. Presentation by Mark Wildermuth of Wildermuth Environmental Inc. Regarding Water Quality Impacts from On Site Waste Disposal Systems in the Cherry Valley Community of Interest.
- 4. Presentation by Joe Reichenberger, PE, District Engineer Concerning Alternatives for Groundwater Pollution Control in the Beaumont Cherry Valley Area.
- 5. Presentation by Sudhir Pardiwala of Raftelis Financial Consultants Inc. Regarding Cost to Sewer Cherry Valley.
- 6. Verbal Presentation by Lisa Kegarice-Tollstrup of Tom Dodson and Associates Regarding the Environmental Work.
- 7. Questions and Answers.

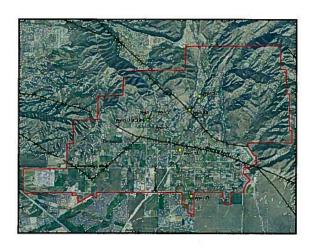
# Water Quality Impacts from On-Site Waste Disposal Systems in the Cherry Valley Community of Interest Item 3

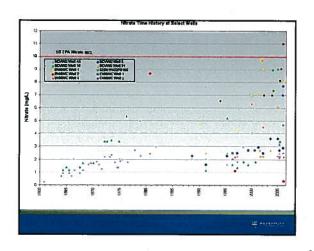


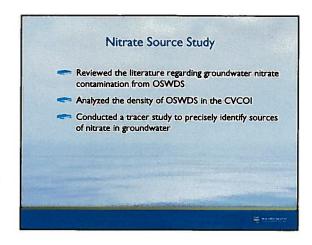


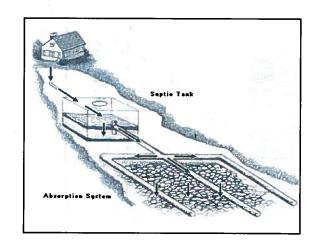




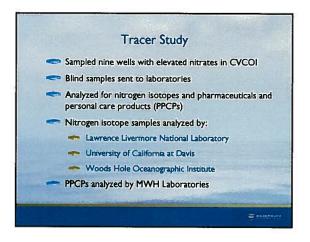


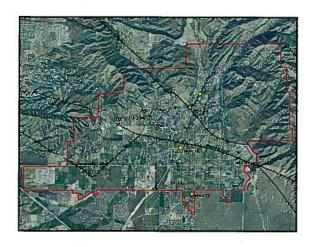


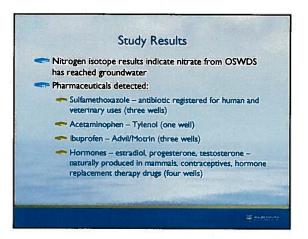


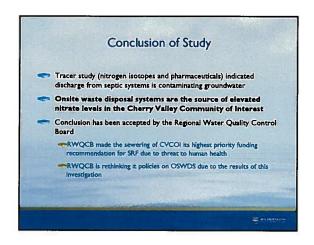


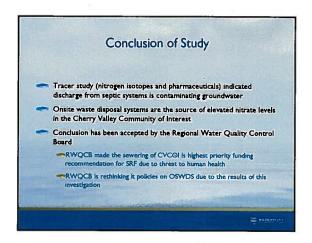
# Review of Literature Regarding Nitrate Contamination by OSWDS OSWDS are frequently sources of nitrate contamination of groundwater. The average nitrate concentration found in the soil below a leach field from 34 study sites across North America was 43 mg/L (NO3-N) — four times greater than the drinking water standard

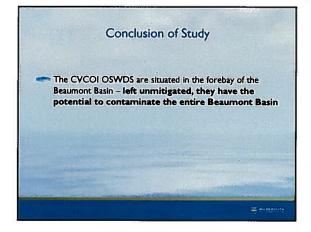


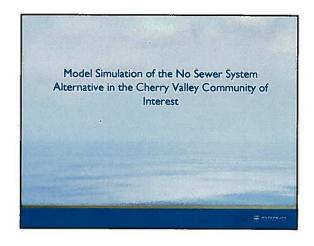


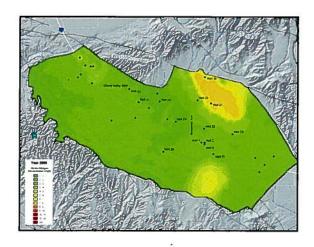


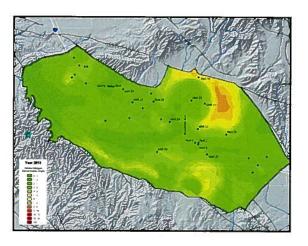


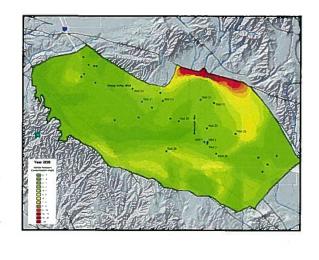


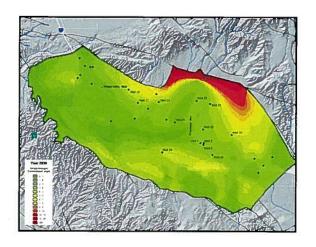


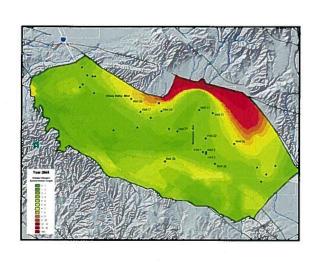


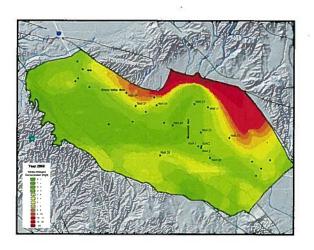


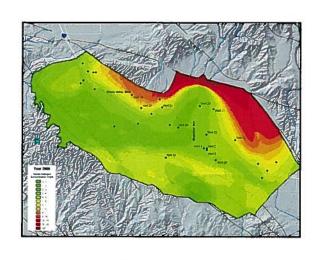


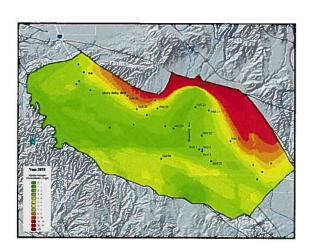


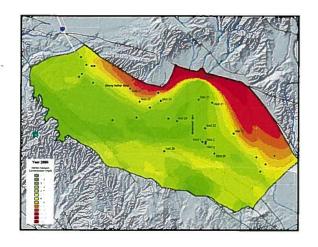


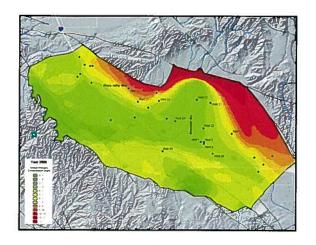


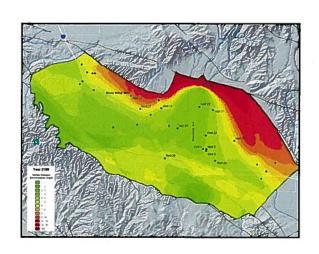


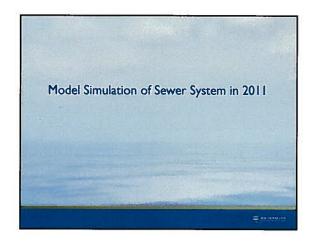


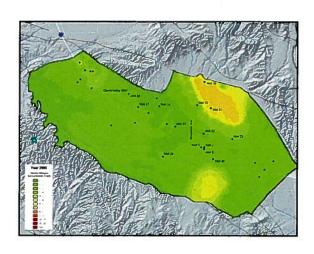


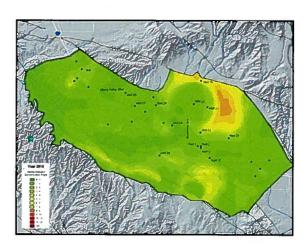


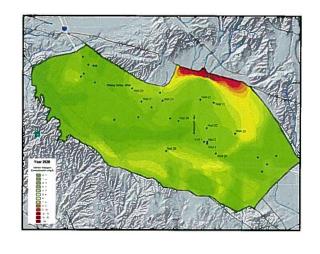


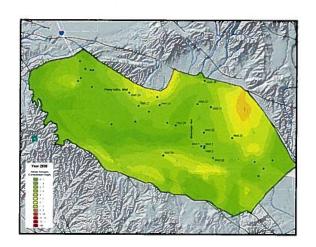


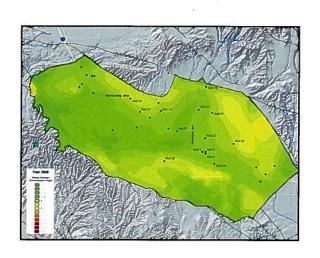


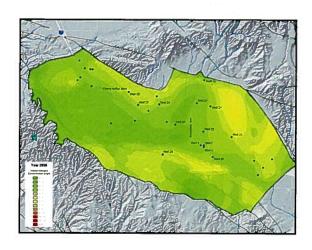


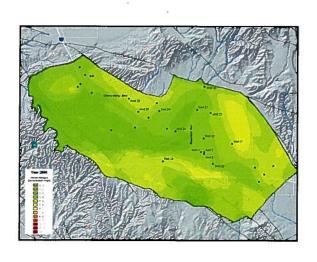


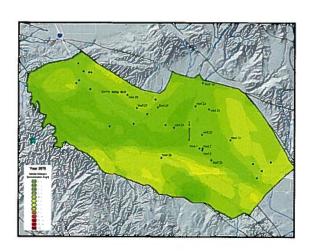












# Alternatives for Groundwater Pollution Control in the Beaumont Cherry Valley Area Item 4

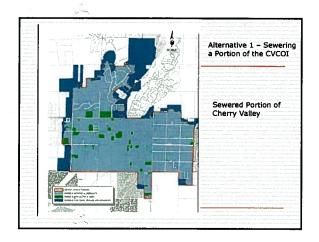
Beaumont Management Zone Water Quality Improvement Program

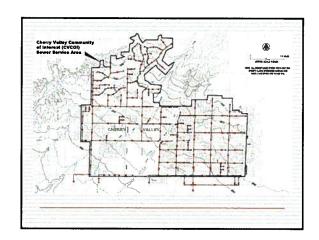
### Presentation of Alternatives

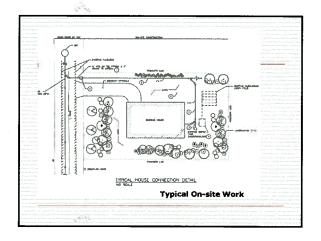
Town Hall Meetings City of Beaumont 8/23/07 Cherry Valley Grange 8/30/07

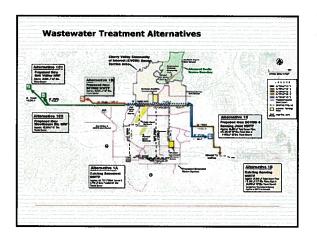
# 4 Basic Alternatives

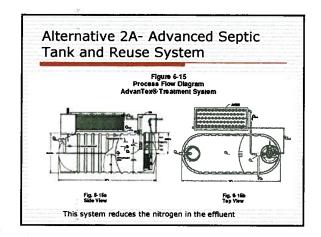
- Sewer the Cherry Valley Community of Interest and convey wastewater to various locations for treatment and reuse
- Install Advance On-site or STEP/STEG system
- 3. Provide Wellhead Nitrate Treatment with brine disposal in the SARI line
- 4. Do Nothing allow continued pollution of the Beaumont Basin



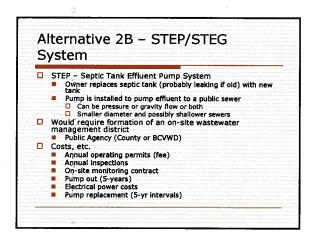


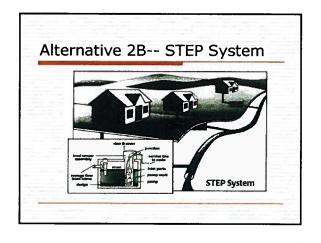


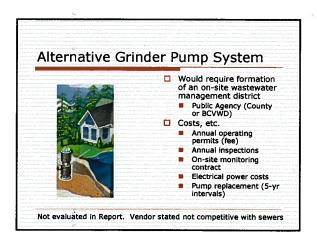


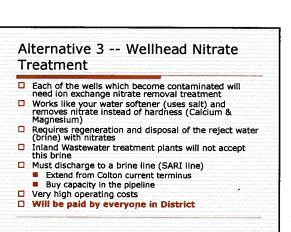


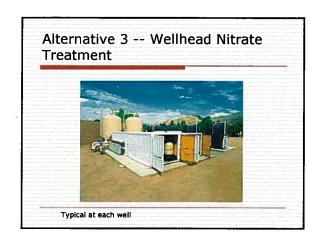
# Alternative 2A- Advanced Septic Tank and Reuse System Each septic tank would be converted to an advanced system with drip irrigation reuse system Would require formation of an on-site wastewater management district Public Agency (County or BCVWD) Costs, etc. Annual operating permits (fee) Annual inspections On-site monitoring contract Pump out (5-years) Electrical power costs Pump replacement (5-yr intervals)











# Alternative 4 - Do Nothing

- Would not be allowed by Regional Board as Basin Water Quality Objectives would be violated
- Regional Board would put a Cease and Desist on existing on-site systems and preclude use of such systems\*
  - Sewer it
  - Advance septic tank system possible
  - Truck it away each day (maybe)
- ☐ Impact on Property Values??
- \* This was done at Los Osos and other communities

# Alternative 4 – Do Nothing (Cont'd) Beaumont Basin could not be used for water supply Affects Yucaipa, Banning, Calimesa too

- Arrects rucapa, Banning, Califies too
   Recharge of imported water would be fruitless don't put good water on top of bad
- Force construction of a water treatment plant
   Could never retrieve it unless wellhead treatment provided
- See Alternative 3 for impacts
- □ Just postponing the inevitable

# Cost Comparison

Alternative	Description	Un-inflated Capital Cost (Millions)	Annual Operation and Maintenance Cost (Millions)	20-year Present Value "Life Cycle Cost" (Millione)
1A	To Senument WWTP	\$33,350,000	\$750,000	\$44,930,000
1B	To Bearing WWTP	\$36,900,000	\$750,000	\$48,480,000
1CI	To Ynmips Oak Valley WWTP	\$13,550,000	\$1,000.000	\$46,990,000
102	To New Woodhouse Rd. WWTP	\$33,640,000	\$460,000	\$41,090,000
1D	To New BCVWD WWTP near Cherry Valley	\$34,340,000	\$460,000	\$43,790,000
18	New BCVWD-Banning Satalitie WWTP	\$36,120,000	\$400,000	\$43,690,000
2A	Advanced On-oite Systems	\$61,390,000	\$2,140,000	\$94,440,000
28	STEP System & Semil Diameter Sewer System	\$63,800,000	\$2,600,000	\$105,340,000
3	Wolfhood Treatment for Nitrate Removal	\$22,600,000	\$4,419,000	\$90,900,000

Present Value is based on 20 years at 2.6% interest Wellhead treatment assumes only 4 wells 16, 21, 22, 23

# Cost to Sewer Cherry Valley Item 5

# Costs to Consumers for Alternative 1C2: Woodhouse Road



August 23, 2007

DEC

# For the Preferred Woodhouse Road Alternative

• Capital Costs:

\$33.6 million

• Funding of this cost under the State Revolving Fund Loan Program:

- Repayment Term:

20 years

- Interest Rate:

2.6%

- Annual Debt Payment:

\$2.18 million

RFC

# For the Preferred Woodhouse Road Alternative

Annual Operating Cost: \$473,000

This pays for collection, transportation, treatment and discharge of the wastewater

RFC

# Users In the Cherry Valley Service Area

	No. of Developed	
Year	Parcels	Population
2006	1,966	7,864
2008	1,986	7,944
2010	2,006	8,024
2015	2,056	8,224
2020	2,106	8,424
2025	2,156	8,624
2028	2,186	8,744
2030	2,206	8,824

Assumes a very small growth rate consistent with historic growth.

-RFC

### **CVCOI Service Fee Components**

Monthly fee has two cost components:

- · Operations & Maintenance for sewer system
- Capital through Loan Repayment (amortized)

### There are

- no other connection fees
- · no other assessments, and
- no liens on property

RFC

# **Service Fee Components**

- O&M approximately \$20/month for:
  - -Collecting, treating and discharging sewage
  - Maintaining the system
    - >Will vary over time due to changes in costs of labor, chemicals, power and number of users
- This compares favorably to the current service charge of \$21.25 in the City of Beaumont

RFC

# **Service Fee Components**

- Loan Repayment approximately \$92/month for 20 years for:
  - Sewer mains, treatment plant
  - On-site work for construction of:
    - » Lateral in the street
    - » Pump-out of septic tank
    - » Abandonment of septic tank
    - » Connection to the sewer system

Will remain constant over 20-year period or reduce as new customers come on line

RFC

# **Payment Options**

- O&M will be paid monthly
- Capital cost can either be paid:
  - Up-front in the amount of \$15,390
  - Or, monthly in the amount of approximately \$92 for 20 years

-RFC

# **Payment Options**

- Option 1: Total O&M and Capital in Monthly Payments of approximately \$112
- Option 2: Upfront payment of \$15,390 and then O&M monthly payments of approximately \$20

-RFC

### **Effect on Other Customers**

 Customers in the Beaumont Cherry Valley Water District receiving sewer service from a public agency will NOT pay for any part of this project

-RFC

### **Effect on Various Consumers**

- Potential customers who own a parcel of land within the sewer service area but with no building on the land will pay nothing now.
- When vacant property is developed, customer will pay the full sewer connection fee in effect at the time and the monthly O&M service charge in effect

RFC-

# **Effect on Various Consumers**

- All other customers will be charged on the basis of how much sewage is generated in comparison to a single-family residence subject to a minimum fee of the single family residence \*
- \* Subject to Board rules and regulations

RFC-