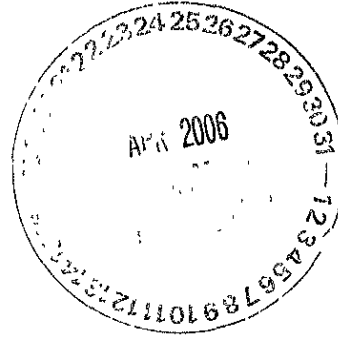




**Corrosion Engineering
Associates, Inc.**



April 19, 2006

County of Santa Cruz Sanitation District
2750 Lode St.
Santa Cruz, CA 95062

Attn: Mr Michael Reilly

CSA #7

**RE CORROSION ENGINEERING EVALUATION FOR BOULDER CREEK
SEWAGE TREATMENT FACILITY**

Gentlemen

The purpose of this letter is to provide the results of Corrosion Engineering Associates, Inc. preliminary corrosion engineering site evaluation of Boulder Creek sewage treatment facility. The structure considered at this facility consists of one (1) clarifier and associated aerobic digester and aeration basin. This structure is associated with the treatment of local sewage.

1.0 STRUCTURE

- Coated steel (exterior and interior)
- Dimensions 44.0' o d x 16 5' deep (approx)

This structure has never been provided cathodic protection.

2.0 RESULTS

- Significant corrosion activity has occurred/is occurring on both interior and exterior surfaces of the aeration sewage plant structure.
- Both the interior and exterior coatings are failing.
- The on-going corrosion activity will continue and result in the eventual failure of the sewage structures considered unless a corrosion mitigation program is established
- Installation of an impressed current cathodic protection system for the structure's exterior in conjunction with re-coating the structure's interior will mitigate the present corrosion activity

Based on the above results, the following cost estimates are provided for the installation of a cathodic protection system for the subject sewage aeration structure's exterior surface (Note There is not sufficient information available to provide a cost estimate for the re-coating of the structure's interior)

Cost Estimates:

- ◆ Engineering design site tests including report and itemized construction cost estimate \$2500 00
- ◆ Engineering design and construction.. . . . \$26,000.00

Corrosion Engineering Associates, Inc. wishes to thank you for the opportunity of submitting this report and looks forward to working with you on this project. If you have any questions or require additional information, please contact our office at (925) 648-1015.

Sincerely,

CORROSION ENGINEERING ASSOCIATES, INC.



John A Dobson
 Principal

JAD/bd

	ROUTE DATA	COPY	ATT.
1	DIRECTOR	✓	
2	ASST. DIR. SPEC. SVCS.	✓	
	RECYCLING/SOLID WASTE		
	LANDFILL OPERATIONS		
	WATER CON/FLOOD CONT		
	STORM WATER MANG		
	CONSTRUCT ENG		
3	SANITATION ENG	✓	
	WATER & WASTEWATER		
	ASST. DIR. TRANSPORT.		
	ROAD OPS ENG		
	PERMITS / ENCROACH		
	DRAINAGE OPERATIONS		
	RD MAINT OPERATIONS		
	RDA ENG		
	ROAD DESIGN ENG		
	SURVEY / DEVELOP M T		
	TRANSP / RD PLANNING		
	ASST. DIR. ADMIN. SVCS.		
	REAL PROPERTY / FLEET		
	CSA / PRGM ADMIN		
	SAFETY OFFICER / LIVE OAK P		
	PERSONNEL / M IS		

COPY | ATT |