

2 February 2011

To: Jagroop Khela, State Water Resources Control Board (SWRCB)

From: Jon Olson, Stover Engineering

Subject: Crescent City Recycled Water System-Proposed Background Soil Testing

The City of Crescent City has applied for coverage under the general permit for landscape irrigation uses of municipal recycled water. The City is currently performing a water nutrient balance for the proposed use area and other tasks deemed necessary by the SWRCB in order to have a complete application. The City was recently made aware that they need to perform background soil testing. The Purpose of this memo is to outline a background soil testing plan for Beach Front Park in Crescent City.

The proposed use area comprises approximately thirty acres. The proposed sampling plan subdivides the site into four sampling zones labeled 1-4; see the proposed sampling location map attached. The City will take two samples from each sampling zone. The two samples will be composited based on depth below ground surface as follows:

1. 0-6 inches
2. 6-12 inches
3. 12-24 inches
4. 24-36 inches

This sampling method will produce four depth based composite samples for each zone. The proposed compositing method will result in a total of sixteen samples to be tested.

The proposed use area soil samples would be taken by City staff and tested by:

Insert Lab name and address information here.

Constituents of Interest:

Constituent	Units	Type	Frequency
Ammonium-N (NH ₄ -N)	mg/kg	Composite	Once Prior to start of Irrigation with Recycled Water
Nitrate-N (NO ₃ -N)	mg/kg	Composite	Once Prior to start of Irrigation with Recycled Water
Nitrite-N (NO ₂ -N)	mg/kg	Composite	Once Prior to start of Irrigation with Recycled Water
pH	pH units	Composite	Once Prior to start of Irrigation with Recycled Water
Exchangeable Sodium Percentage	%	Composite	Once Prior to start of Irrigation with Recycled Water
EC	µmhos/cm	Composite	Once Prior to start of Irrigation with Recycled Water
Depth	inches	measured	Once Prior to start of Irrigation with Recycled Water

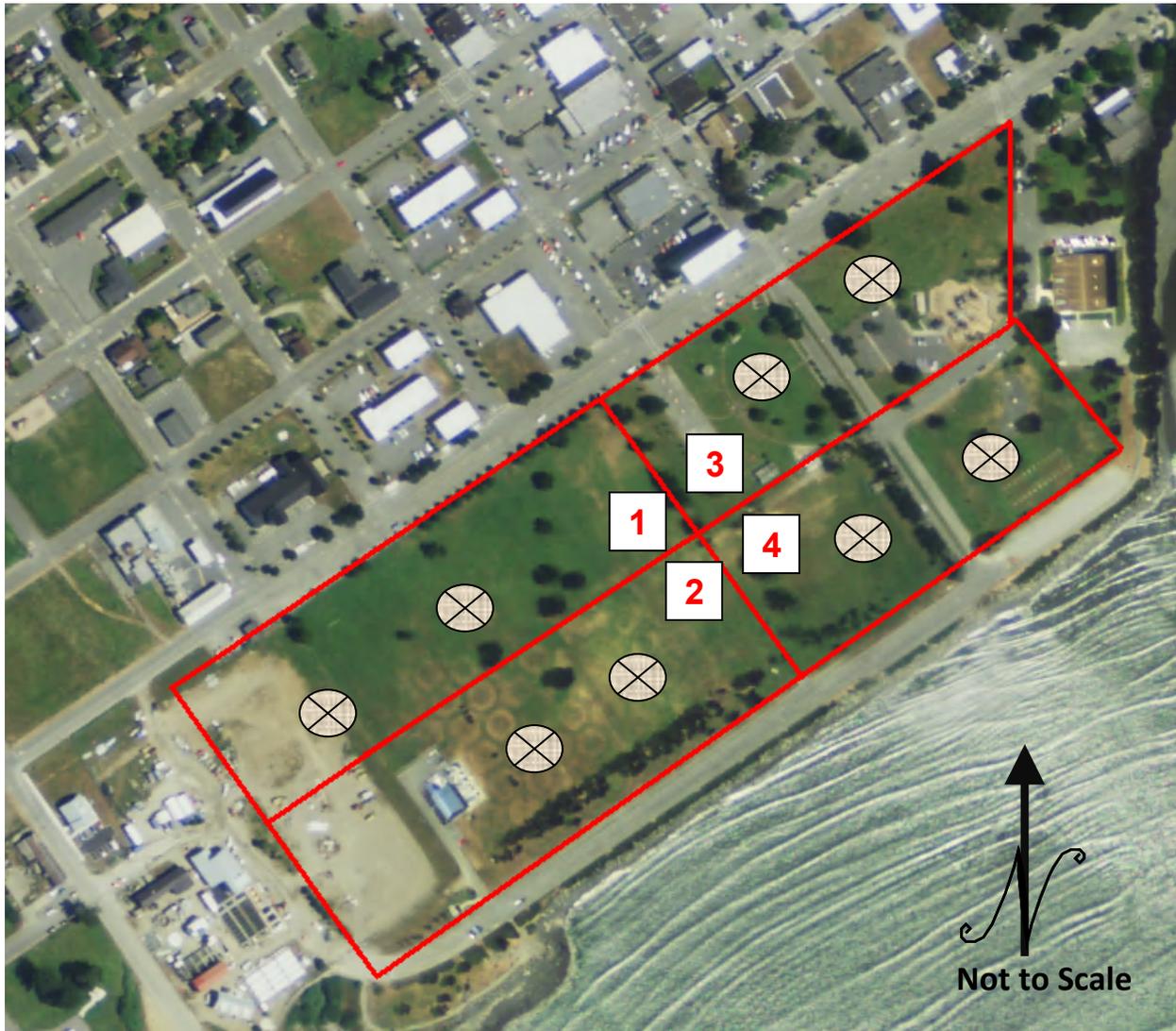
This proposed sampling plan is submitted for your review and approval. We look forward to your response.

Sincerely,

Jon Olson, PE

Attachments:
 CC: Jim Barns-Crescent City

PROPOSED SOIL SAMPLING LOCATION MAP



Legend:

1 - Proposed Sampling Zones

 - Proposed Sampling Sites

 - Proposed Use Area Boundary

Take and composite samples at the recommended depths in accordance with the proposed sampling plan.