**PRELIMINARY SITE PLAN**

12/10/10

**LEGEND**

- **SECURE PLANT FOOTPRINT**
- **BUILDING FOOTPRINTS**

**CURRENT SITE PLAN**

10/27/11

**PLANNING PROGRESS**

- REDUCED / CENTRALIZED BUILDING FOOTPRINT
- INCREASED BUFFER SPACE ON ALL SIDES
- SUBSTANTIAL DECREASE IN PAVEMENT AND CIRCULATION ROADS
- EMERGENCY ONLY ACCESS ROAD COMBINED WITH PEDESTRIAN TRAIL ON EAST EDGE
- INCREASED NON-SECURE OPEN SPACE
- BUILDINGS ORIENTED TO FACE THE STREET, DEFINING THE PLANT EDGES
Kenthorpe Stormwater Garden

Water Treatment Plant Entry Area

Kenthorpe Way “Green” Street Improvements
Front Entry Area
Mapleton Trail/Emergency Access
Kenthorpe Pedestrian Entrance
Fencing

1. Split-rail Fence
2. Good Neighbor Fence
3. Good Neighbor Fence w/ Security Mesh

Walls + Screens

4. High Site Wall + Gate
5. Lumber Screen

LAKE OSWEGO - TIGARD WTP EXPANSION PROJECT | Site Security + Screening

West Linn, OR

October 27, 2011
Existing maintenance and truck loading area will now be located inside the plant, reducing associated impacts to neighbors.

Dewatered solids loading will now be contained within a new Dewatering Building, reducing associated noise.

Where possible, all equipment that is traditionally external to buildings (HVAC fans, mixer motors, etc.) will be located within buildings to reduce external noise.

All chemical deliveries are internal to plant facilities, screening associated visuals and noise. Delivery points are designed with spill containment measures.

Existing basins will no longer be used for solids drying. Current noise associated with solids drying activities (engines, “backup” beeping, etc.) will no longer be needed at the plant.

The remaining two lagoons will only be used during emergency operations.
Current Treatment Process

Future Treatment Process

Coagulant and bleach are added. Lime is added to regulate the pH.
West Linn's Water Supply

Oregon City and West Linn jointly own South Fork Water Board (serves 54,000 people).

Drinking water source: Clackamas River
Treatment plant located in Oregon City in the Park Place Neighborhood. (Recently extensively upgraded and expanded).

Water delivered through a 24-inch transmission main suspended on the I-205 Bridge.

Benefits of Partnership

- Improved system-wide needs under emergency conditions.
- West Linn's Water Master Plan (2008) explains West Linn does not currently have adequate storage to meet fire flow demands.
- The water treatment plant cannot deliver emergency supply year-round unless it is expanded through emergency and backup water source.
- Lake Oswego's water treatment plant serves as West Linn's sole emergency water source.
- Current emergency supply capacity is the total available capacity of the City's Lake Oswego Emergency Intertie Pump Station, assumed to be under maximum demand conditions.

Table 6.3 System Wide Performance Requirement Summary

<table>
<thead>
<tr>
<th>Year</th>
<th>Maximum Daily Demand (mg)</th>
<th>Fire Flow (mg)</th>
<th>Total Supply Need (mg)</th>
<th>Normal Supply Capacity (mg)</th>
<th>Emergency Supply Capacity* (mg)</th>
<th>Normal Supply Deficit (mg)</th>
<th>Emergency Supply Deficit (mg)</th>
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<tr>
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<td>8.6</td>
<td>0.5</td>
<td>9.1</td>
<td>9.5</td>
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<td>0.5</td>
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<td>10.2</td>
<td></td>
</tr>
</tbody>
</table>

*Emergency supply capacity is the total available capacity of the City's Lake Oswego Emergency Intertie Pump Station, assumed to be under maximum demand conditions.

West Linn ratepayers would save millions of dollars by avoiding construction of a new 8.4 million gallon reservoir. A larger underground reservoir for treated water (a clearwell) at the plant will allow water to be fully treated before it leaves the treatment plant – a key to providing high quality potable water to West Linn residents when needed.

West Linn's Water System Master Plan (2008)

WTP Design Open House ........................................ Oct. 27, 2011

Required Land Use Application Public Meeting ........ Nov. 10, 2011

Land Use Application Submittal ............................... Jan. 2012

Planning Commission Hearing ............................... Spring, 2012

Project Design .................................................. Spring 2011 – Spring 2013

Construction ..................................................... Spring 2013 – Summer 2015