

July 22, 1997

4R Round
WATCH
RAIN FALL

Sonja Kay Pickner
City of Toledo
Post Office Box 220
Toledo, OR 97391

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Western Region -
Salem Office

Re: WQ/SDS-City of Toledo
Biosolids Land Application
Authorization: Howard Farm
Sec.33;TWP;9S;R9W
Lincoln County

Jimmys Place
28 NET ACRES

Dear Ms. Pickner:

I evaluated the City of Toledo's (City) request for authorization to land apply aerobically digested biosolids from the Toledo Wastewater Treatment Plant (WWTP) onto the Howard Farm (referenced above). The biosolids will supply nutrients for 57 acres of grass hay. Material you submitted with the biosolids land application site authorization request included information characterizing soils, topography, biosolids, crop, crop management, annual available nitrogen loading (agronomic loading rate), my July 10, 1997 site review, and a copy of a signed agreement regarding the use of biosolids.

Based upon the Department of Environmental Quality's (Department) review, the property is approved for the application of aerobically digested biosolids from the City provided:

1. Solids processing and handling will comply with Oregon Sludge Rules and Guidelines (OAR 340-50-005 to OAR 340-50-080) and all other applicable statutes, rules, and Federal regulations;
2. Sludge volatile solids shall be reduced by 38% or more via anaerobic digestion prior to land spreading;
3. Prior to land application, the biosolids must meet one of the three pathogen reduction standards required under 40 CFR 503.32 (b);



750 Front St. NE
Suite 120
Salem, OR 97310
(503) 378-8240
(503) 378-3684 TDD
DEQ/WVR-101 1-91

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4. Based on the City's most recent biosolids analysis, existing crop, topographic, and soil conditions of the field, 100 pounds of available nitrogen per acre, per year (50 pounds summer/fall application) 2.1 dry tons per acre can be applied. Changes in biosolids characteristics or cropping practices will necessitate appropriate adjustments in the annual application rate to maintain nitrogen loadings consistent with crop demands;
5. If other sources of nitrogen will be applied to the fields, the biosolids application rate must be reduced so that commercial fertilizer nitrogen, animal manure, or green manure nitrogen, plus biosolids nitrogen, do not exceed the agronomic loading rate of any field within the site;
6. The City's truck operator shall immediately clean up any spillage of biosolids. Spillage which cannot be completely cleaned up must be covered with dry lime and posted where appropriate;
7. The Department's Salem Office (503) 378-8240 shall be notified within one hour of any biosolids spills greater than 50 gallons, or other threats to the environment that may occur. Spills that occur after normal working hours shall be reported to the Emergency Management Division (EMD) within one hour. The telephone number of EMD is 1-800-452-0311;
8. A 50 foot minimum (300 feet minimum if biosolids gun application is used) setback shall be maintained between biosolids application areas and all highways, public roadways, and property lines;
9. A minimum setback of 200 feet shall be maintained between biosolids application areas and all wells and other water sources;
10. Biosolids shall be applied evenly and thinly in a manner that will prevent ponding and runoff;
11. No food crops for direct human consumption whose harvested parts are grown below ground shall be planted on any biosolids amended area for at least 38 months following biosolids land spreading;
12. No food chain crops for direct human consumption whose harvested parts are grown above ground (e.g., tomatoes) shall be grown on any biosolids amended area for at least 14 months following biosolids land spreading;

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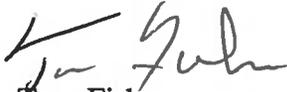
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13. A 30-day fallow period shall follow the application of biosolids prior to grazing livestock on any biosolids amended field or harvesting animal feed crops from biosolids amended areas;
14. Public access to the field site shall be restricted for at least 12 months after biosolids land spreading has ceased;
15. In the event an odor problem is reported at any land application site, immediate steps such as, but not limited to, the addition of liming materials must be taken to counteract that condition;
16. The City shall maintain daily records for the biosolids land application site which indicate on a field map grid system where, when, and how many gallons biosolids were land applied to the specific fields on the property to verify that annual loading limitations are not being exceeded;
17. The Department shall have the right to enter the Toledo WWTP's place of record keeping to review biosolids management operations and records; obtain copies of any records required under the terms of this authorization and the WWTP's biosolids (sludge) management plan; inspect any monitoring equipment required under this authorization; inspect any collection, transport, or land spreading vehicles; and obtain any photographic documentation or evidence deemed appropriate;
18. The City shall provide the Department an annual summary of biosolids processing and land application activities;
19. The Department may impose, at a future date, additional restrictions or conditions deemed necessary to assure adequate biosolids management. Any variations from the Department approved Biosolids Management Plan and this authorization letter must receive prior written approval from the Western Region-Salem Office; and,
20. This authorization is subject to revocation should health hazards, environmental degradation, or nuisance conditions develop as a result of inadequate solids treatment or site management. If operations are not conducted in accordance with terms specified under this authorization, the Department will initiate necessary remedial action.

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If you have any questions regarding this authorization, please contact me at
(503) 378-8240, extension 236.

Sincerely,



Tom Fisher
Environmental Specialist
Western Region-Salem Office

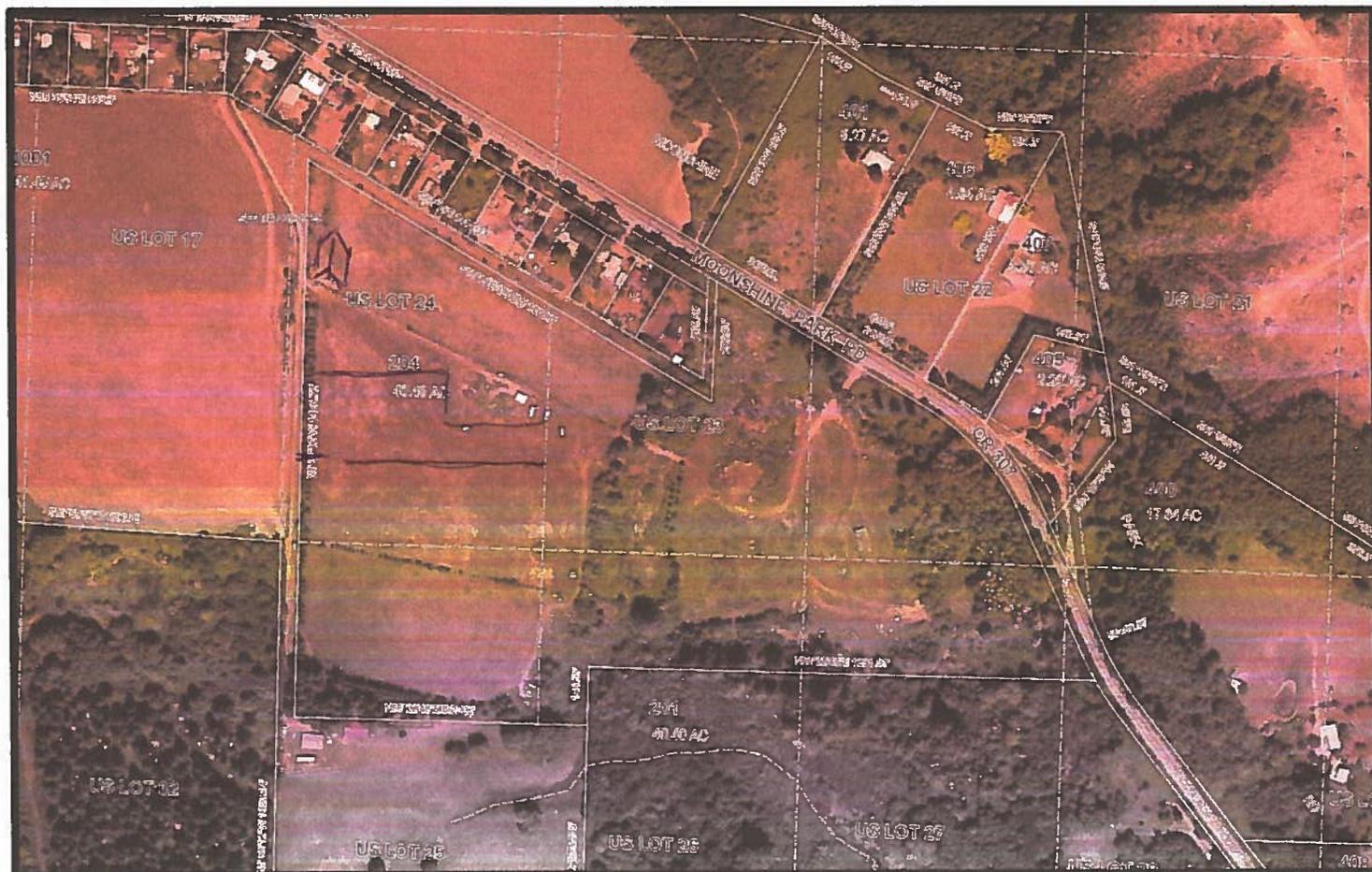
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cc: Doug Peters, Municipal Wastewater Section

Jim Howard
1257 Moonshine Park Road
Logsdon, OR 97357

Map



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