

May 20, 1993

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Herb Jennings
City of Toledo
P.O. Box 220
Toledo, OR 97380

Willamette Valley Region

Re: WQ/SDS-City of Toledo
File No. 89103
Biosolids Land Application
Authorization; Dilley Site
T.L. 100 of Sec. 4 & 33, 200
of Sec. 11, T10S, R9W W.M.,
Lincoln County

Dear Mr Jennings:

As you are aware, Regional staff evaluated the Dilley site with you on May 6, 1993, to determine if the site would be suitable for the land application of aerobically digested sludge from the City of Toledo WWTP. At that time, you provided us with a request for authorization to land apply solids to a 8.21 acre hay field on the Dilley property (referenced above) which included information characterizing soils, topography, sludge, crop, crop management, annual available nitrogen loading (agronomic loading rate) and site life and a signed agreement between the City and Anthony Dilley.

Based upon our evaluation of the site and the information submitted, I am pleased to advise you that the property described above is approved for year-around application of digested sewage sludge from the City provided:

1. Sludge processing and handling will comply with Oregon biosolids rules and guidelines (OAR 340-50-005 to OAR 340-50-080) and all other applicable statutes, rules and federal regulations.
2. The City must demonstrate compliance with the provisions of 40 CFR 502.32 and 40 CFR 503.33.
3. Based on the City's most recent sludge analysis, existing crop, topographic and soil conditions of the field, up to 35 pounds of available nitrogen [30,000 gallons biosolids per acre per year] can be applied to areas of the field acceptable for receiving solids. Changes in biosolids characteristics or cropping practices will necessitate appropriate adjustments in the

BARBARA ROBERTS
Governor



750 Front St. NE
Suite 120
Salem, OR 97310
(503) 378-8240

application rate to maintain nitrogen loadings consistent with crop demands.

4. The above Condition 3 notwithstanding, the application rate shall not exceed 5000 gallons per acre per hour or 40,000 gallons per acre per day. The resting period between applications should be at least 48 hours. Weather conditions should be considered and the resting period adjusted upward for inclement weather conditions.
5. Biosolids land irrigation by big gun shall cease when precipitation exceeds 1/4 inch per hour, or when one inch or more of precipitation occurs in a 24-hour period. Irrigation shall be withheld from the site for at least one day for every consecutive day of precipitation where a 1/4 inch or one-inch per 24-hour precipitation event occurs.
6. If other sources of nitrogen will be applied to the field, the biosolids application rate must be reduced so that commercial, animal manure or green chop nitrogen, plus biosolids nitrogen, does not exceed the agronomic loading rate of any field within the site.
7. Biosolids land spreading shall be via tanker truck with a spreader bar or a big gun irrigation applicator.
8. Immediately following land spreading, the biosolids tanker operator shall wash down (at the application site) areas of equipment coated with sludge to prevent sludge from leaking onto public highways.
9. The City's truck operator shall clean up any spillage of sludge. Spillages which cannot be completely cleaned up must be covered with dry lime and posted where appropriate.
10. The Willamette Valley Region Office shall be notified within one hour of any spills of more than 50 gallons, or other threats to the environment that may occur. Failure to provide notification within one hour may be considered cause for taking enforcement action against the City. 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.

11. A 10 foot (minimum), (75 feet minimum where biosolids cannon is used), setback shall be maintained from the county road and points of biosolids application.
12. A minimum setback of 200 feet shall be maintained from all wells and other water sources.
13. Biosolids shall be applied evenly and thinly in a manner that will prevent ponding and runoff.
14. Big gun biosolids land application shall not occur when wind speeds exceed 15 mph, where any potential exists for biosolids being carried off the site.
15. Areas where biosolids have been applied shall be clearly marked by flag pins or stakes which note the date when biosolids were last applied.
16. 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 60 months following biosolids land spreading.
17. 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 18 months following biosolids land spreading.
18. A 30-day fallow period shall follow the application of biosolids prior to grazing livestock on any field or feeding harvested crops from biosolid application areas to animals.
19. Public access to the site shall be restricted for at least 12 months after biosolids land spreading has ceased.
20. In the event an odor problem is reported to the Department after biosolids have been land spread at the Dilley Site, immediate steps, such as, but not limited to, the addition of liming materials, must be taken to counteract that condition.

21. The City shall maintain daily records for the biosolids land application site which indicate (on a field map grid system) where, when, and how much (gallons) biosolids were land applied to a particular site vicinity.
22. Site records shall indicate the date, location and amount of biosolids applied, segments of each field that received biosolids, pounds of nutrients, arsenic, cadmium, chromium, copper, lead, molybdenum, mercury, nickel, selenium, and zinc applied to each area receiving biosolids, and the type of crop grown. These data shall be maintained at WWTP and be made available to the Department for review upon request.
23. The Department shall have the right to, (at reasonable times): Enter City of 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 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.
24. The City shall provide DEQ a monthly summary of sludge processing and land application activities on DMR's required under the sewage treatment facility's NPDES permit.
25. The Department may impose any additional restrictions or conditions deemed necessary to assure adequate sludge management. Any variations from the City's DEQ approved biosolids management plan and this authorization letter must receive prior written approval from the Willamette Valley Region Office.
26. Prior to land spreading on this site, the City shall submit to the Department an updated biosolids analysis for the ten metals listed in 40 CFR 503. The previously submitted analyses indicate the metal in the biosolids do not exceed the concentrations listed in Table 3, 40 CFR 503.13(b)(3). If the results of the updated analysis indicate levels of

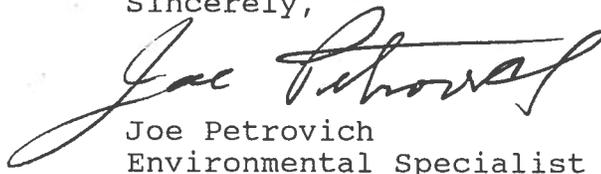
Herb Jennings
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arsenic, chromium, mercury, molybdenum, and selenium
fall below the concentration levels listed in the
above table, site life will not be calculated.

27. This authorization is subject to revocation should health hazards, environmental degradation, or nuisance conditions develop as a result of inadequate sludge treatment or site management. If operations are not conducted in accordance with terms specified under this authorization, the Department will initiate necessary remedial action.

If you have any questions regarding this authorization, please contact the Regional Sludge Coordinator at 378-8240.

Sincerely,



Joe Petrovich
Environmental Specialist

JAP:cjd
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Enc: (1) Beneficial Use Application
(2) Annual Solids Production Summary

cc: Anthony Dilley
7174 Logsdan Road
Logsdan, OR 97357. (w/att)

Mark Ronayne, WQ (w/att)

March 3, 1995

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Western Region -
Salem Office

Herbert Lee Jennings
City of Toledo
P.O. Box 220
Toledo, OR 97391

Re: WQ-City Of Toledo
File No. 89103
Lincoln County
Nitrogen Application Increase

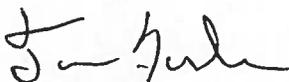
Dear Mr. Jennings:

The Department has reviewed your request to raise the yearly available nitrogen applications to 100 lbs. an acre on the Koysdar and Dilly biosolids beneficial use sites. Hay and pasture grass are grown on the sites.

The request is approved contingent upon the total nitrogen application, including manure or commercial fertilizer not exceeding 100 lbs. available per acre.

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

Sincerely,



Tom Fisher
Environmental Specialist
Western Region-Salem Office

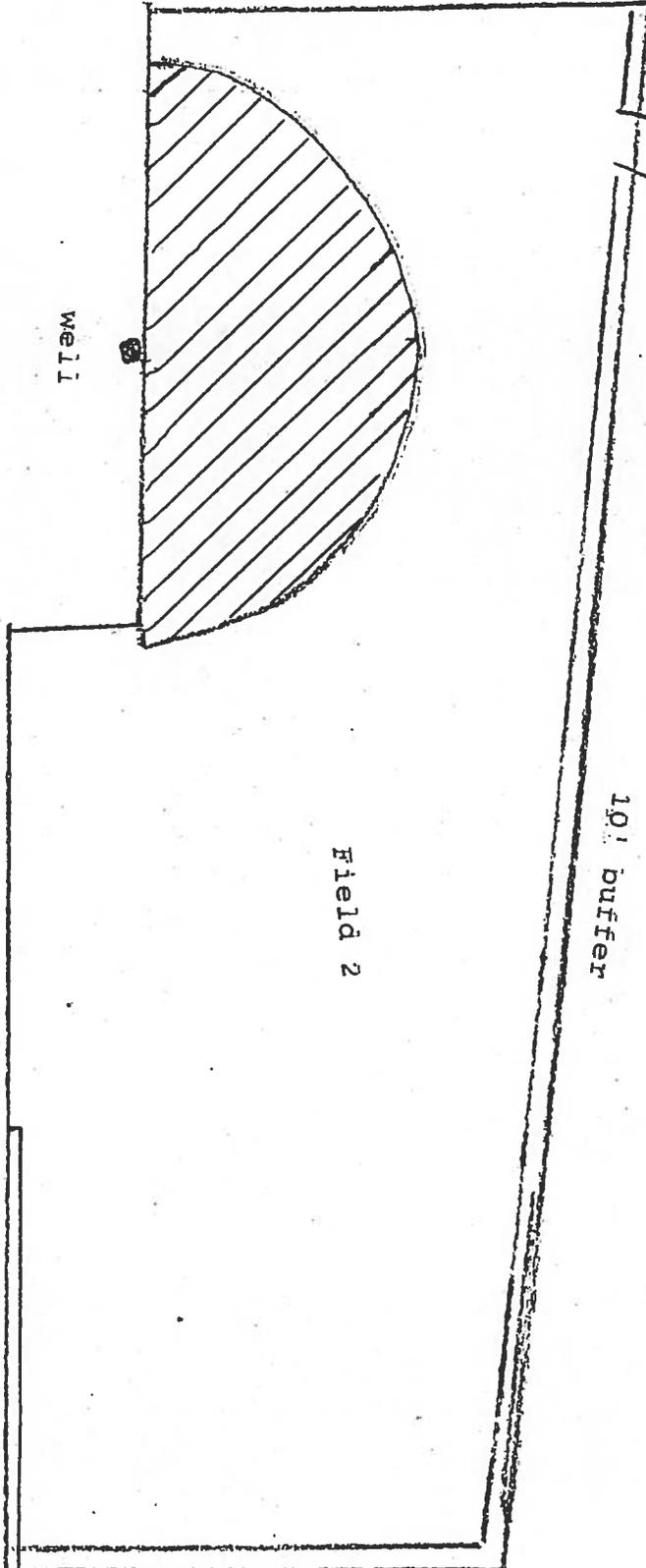
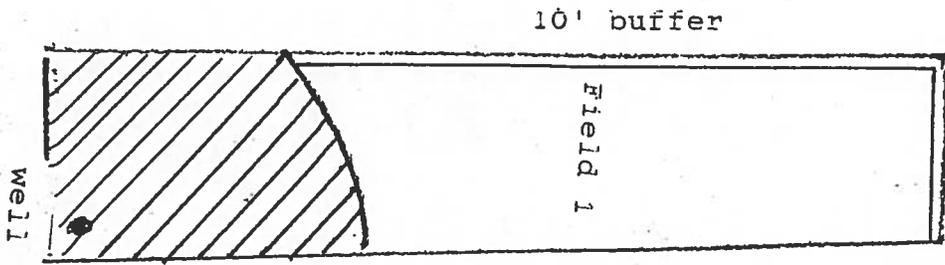
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750 Front St. NE
Suite 120
Salem, OR 97310
(503) 378-8240
(503) 378-3684 TDD
DEQ/WVR-101 1-91

Anthony Dilley Application Site
Tax Lot No. 1100

Logsdan Road



Field 1	2.9 acres
Field 2	8.9 acres
1.11 acres available for Bio-solids application	
7.1 acres available for Bio-solids application	

100 feet



No Biosolids

North



10' buffer