

Public Works Department 117 N Molalla Avenue PO Box 248 Molalla, Oregon 97038 Phone: (503) 829-6855

Fax: (503) 829-3676

February 17, 2016

David Cole
DEQ – NW Region & Western Region
700 NE Multnomah St, Suite 600
Portland, OR 97232

RE: 2015 Molalla Annual Biosolids Report

The following 2015 Molalla Annual Biosolids Report and supporting documents were prepared by Jason Clifford, Lead Wastewater Operator, as required by the Molalla NPDES No. 101514, Schedule B, Table B13, Page 18 and the City of Molalla's, Biosolids Management Plan. This report will include information on biosolids handling activities and data from the 2015 calendar year. The supplimental documentation information includes:

- Daily site logs or records, including date, time, and quantity (gallon, pounds) of nitrogen/acre land applied.
- Map, including scale, showing the site and the land application location that coincides with the daily site application method
- Signed copy of the certification statement (see next section on Certification Statement).
- Biosolids Spill Prevention and Response Plan

Please contact myself (503)-759-0218 or Jason Clifford (503) 793-5283 if you have and questions in regards to this letter or requirements above.

Best Regards,

Jennifer Cline, P.E.

Public Works Director

Cc: Dan Huff, City Manager
Jason Clifford, Lead Wastewater Operator

Facility Information

DEQ File Number: 57613 Permit Number: 101514

Name Molalla WWTP Permit Type: NPDES

Location Address 12424 S. Toliver Rd. Molalla, OR 97038

Mailing Address: PO Box 248 Molalla, OR 97038

Contact name Jason Clifford Telephone: (503) 793-5283

Email jclifford@cityofmolalla.com Fax: (503) 829-4298

Biosolids Process Descriptions Generation

Wastewater Sources & Volumes:

	Gallons/year
Municipal	503.964 million gallons
Industrial	
Septage	
Total Gallons	503.964

Solids Produced:

	Dry Tons (DT)/year
primary	57.6775
secondary	
Lagoon	
Total DT	57.6775

Preparation

Mark applicable processes and on separate sheet describe the processes and equipment used for:

Screening grit removal settling thickening digestion dewatering

Storage

For each container type, list numbers, sizes, materials (i.e. steel, etc.) and volume.

<u>Containers</u>	X number	X volumes of each	(material)	= total volume
	of units	storage container		
tanks				
clarifiers				
lagoons	2	53MG and 45 MG	Clay Lined	98MG
drying beds				
other				
TOTAL CAPACITY:		98 Million Gallons		

Application

<u>List transport equipment</u> used from facility to sites (e.g. 3,000 gal. tanker truck).

✓ 5,000, 6,000 and 7,000 gallon tanker trucks

<u>List application method and equipment</u> used to apply at sites

(e.g. truck splash plate, spray gun, manure spreader, etc.).

√ Splash Plate

Biosolids Quality

EQ	С	lass A		Class B		
Testing frequency (times/year)		1 🗸	4		6	12

[Metric Tons] [<290] [290>1,500] [1,500>15,000] [\ge 15,000]

[U.S. Tons] [<319] [319>1,650] [1,650>16,500] [$\ge 16,500$]

[Choose one, based on dry weight of biosolids produced and land applied annually.]

Test data

Use Tables below to record quarterly or annual testing results; use average column for annual test data. If testing more frequently (monthly), supply data on separate sheet.

Nutrient Monitoring

Item	1 st quarter	2 nd quarter	3 rd quarter	4 th quarter	Average
TKN		3.289%			
NO ³ -N		<0.026%			
NH ⁴ -N		0.724%			
P		2.895%			
K		0.061%			
рН		6.3			
Total Solids		3.8%			
Vol. Solids		43.1			

Test data is expressed in % dry weight (dw), except pH which is standard units.

Pollutant Monitoring

	4 ct .	and 4	ord .	4th	
	1 st quarter	2 nd quarter	3 rd quarter	4 th quarter	<u>Average</u>
Metals					
As		<7.9			
Cd		0.1			
Cr		1.5			
Cu		174.2			
Pb		13.7			
Hg		0.9			
Мо		0.2			
Ni		1.0			
Se		<13.2			
Zn		29.7			

Test data is expressed in mg/kg (ppm) based on dry weight.

Pathogen Reduction Monitoring & Records

Circle selected pathogen reduction alternative below and on a separate sheet:

- Describe process used to reduce pathogens
- State operational parameters met (e.g. time & temperature)
- Attach monitoring data and certification statement

Part 503.32 Pathogen Reduction Alternatives

Class A Alternatives

[requires tests for fecal coliform &/or Salmonella sp.]

- 1. time & temperature
- 2. pH >12, 72 hr;@52°C,12hr, >50%TS
- 3. pre & post testing for enteric virus & helminth ova
- 4. post testing for enteric virus & helminth ova
- 5. PFRP: 1 composting

Class B Alternatives

1. 7 samples, geometric mean < 2,000,000

MPN or CFU/g TS

- 2. PSRP: 1 aerobic digestion
- 2 air drying
- 3 anaerobic digestion
- 4 composting
- 5 lime stabilization
- 3. PSRP equivalent
- 2 heat drying
- 3 heat treatment
- 4 thermophilic aerobic
- 5 beta ray irradiation
- 6 gamma ray irradiation
- 7 pasteurization
- 6. PFRP equivalent

Vector Attraction Reduction (VAR) Monitoring & Records

Circle selected alternative and on separate sheet:

- Describe VAR process used
- Describe operational parameters met (e.g. pH & time)
- Attach monitoring data and certification statement Part 503.33 Vector Reduction

Alternatives

In-plant alternatives

- 1. 38% min. reduction of volatile solids
- 2. anaerobic bench scale digestion
- 3. aerobic bench scale digestion
- SOUR aerobic 1.5mg O²/hr/g TS (dw)
 aerobic 14 days>45°C average temp.
- 6. $pH \ge 12$ for 2 hr, + 22 hr ≥ 11.5 pH
- 7. secondary solids ≥ 75% solids

8. primary solids ≥ 90% solids

Site management alternatives

- 9. subsoil injection within 8 hr
- 10. soil incorporation within 6-8 hr

Other alternatives

- 11. (for disposal units only)
- 12. septage only $pH \ge 12$ for at least 30 min.

Land Application Site Information

For all sites used during the reporting year period, provide the following information: (This information can be provided on a separate spreadsheet if available.)

Site Name (resident)	Site ID No.	Location (Sec,Twn,Rge)	Crop(s)	Acres applied	N lb/ac applied	Application rate DT/ac	Total DT/site	Seasonal restrictions
Ralph Piuser	Mount Hope Road	T5S R1E S13	Triticale	26.33	33.0	2.0	52.5	Summer only
Ralph Piuser	Thomas Road F4	T5S R1E S25	Fescue	9.68	10	0.6	5.9	Summer only
Ralph Piuser	Thomas Road F7a	T5S R1E S25	Orchard Grass	5.60	29	1.8	10.3	Summer only
Ralph Piuser	Thomas Road F6	T5S R1E S25	Fescue	19.34	39	2.5	47.5	Summer only
Ralph Piuser	Thomas Road F5	T5S R1E S25	Orchard Grass	9.32	37	2.3	21.4	Summer only

NOTE: Attach the following items if applicable.

Soil test data if site is proposed for application for third consecutive year. This will apply to all sites used in 1998 that were applied to in 1996 & 1997. See **OAR 340-50-080(5)**

Cumulative loadings & site life information for sites receiving biosolids with any trace pollutants exceeding Table 3 values. See OAR 340-50-035(6)(b)

Screening: The City of Molalla uses an FSM fine screen at the Headworks that is capable of removing solids larger than ½ inch.

Settling: Settling is accomplished with the facultative lagoon system. Most solids settle out in the first quarter of number 1 lagoon.

Thickening: Thickening occurs naturally in the bottom of the facultative lagoon system.

Digestion: Anaerobic Digestion occurs naturally at the bottom of number 1 lagoon.

BORATORIES, INC. Services

35 SW Pacific Hwy Figard, OR 97223

Tel (503) 639-9311 Fax: (503) 684-1588

Received: 05/19/15

Sampled By: JE

Sampled: 5/19/15 9:15 am

Work Order: 5139005

Project: Bio-Solids

Project #: N/A Permit #: 101514

PO #: -

Sampling Location: -

Sample Matrix: Waste Water

C	Molalla, City of
L	Attn: Jake Ehredt
E	PO Box 248
N	Molalla OR, 97038
T	Phone: (503) 829-5408

ab Number	Sample Name	Molalla \	NW Pond #1	- teacher	B) per - c her-	and the control of th	CALLED THE PLANE OF THE STATE O
139005-01						dry	
	Me	ethod	Result	Units	m	ıg/kg	Analysis Date/ Time
Arsenic	EF	A 200.9	< 0.300	mg/kg	<	7.9	05/26/2015
Cadmium	El	PA 6020	0.00201	mg/kg		0.1	06/30/2015
Chromium	E	PA 6020	0.0584	mg/kg		1.5	06/29/2015
Copper	Sf	4 3111B	6.62	mg/kg		174.2	06/03/2015
Lead	EF	A 200.9	0.522	mg/kg		13.7	06/01/2015
Mercury	EF	A 245.1	0.034	mg/kg		0.9	06/10/2015
Molybdenum	Ei	PA 6020	0.006	mg/kg		0.2	06/29/2015
Nickel	E	PA 6020	0.038	mg/kg		1.0	06/29/2015
Selenium	EF	A 200.9	< 0.500	mg/kg	<	13.2	07/06/2015
Zinc	E	PA 6020	1.13	mg/kg		29.7	06/29/2015

Lab Number	Sample Name Molalia W	W Pond #	#1		
5139005-01					
	Method	Result	Units		Analysis Date/ Time
рН	EPA 150.1	6.3	pH Units		05/19/2015
Total Solids	SM 2540-B	3.8	Weight %		05/19/2015
Total Volatile Solids	SM 2540-E	43.1	Weight %		05/19/2015
Total Kjeldahl Nitrogen	EPA 351.3	1250	mg/kg	3.289 %	05/20/2015
Ammonia as N	SM 4500-NH3F	275	mg/kg	0.724 %	05/19/2015
Phosphate, Total (as PO4)	PA 365.3	3580	mg/kg	9.421 %	05/27/2015
Potassium	SM 3111B	23	mg/kg	0.061 %	05/28/2015
Vector Attraction	CFR-40 Part 266 p.497	4.75	%	0.013 %	06/29/2015
Nitrate as N	EPA 300.0	<10.0	mg/kg	<0.026 %	05/20/2015
Phosphorus -	EPA 365.3	1100	mg/kg	2.895 %	05/27/2015

MRL = Minimum Reporting Limit MPN = Most Probable Number

Approved by:

Scott Dickman Lab Director

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report reflects the results for this sample only.



Professional Laboratory Services

13035 SW Pacific Hwy Tigard, OR 97223

Tel.: (503) 639-9311 Fax: (503) 684-1588

Molalla, City of

Attn: -

C

PO Box 248

E PO Box 248

Molalla OR, 97038

Phone: (503) 829-5408

ANALYSIS REPORT

ORELAP Accredited Lab#: OR-100013

Reported: 06/01/2015 Received: 05/19/15

Sampled By: JE

Sampled: 5/19/15 9:15 am

Work Order: 5139006

Project: Bio-Solids Project #: N/A

Permit #: 101514

PO #: -

Sampling Location: Molalla WW Pond #1

Sample Matrix: Solid

Lab Number	Sample Name	Fecal Coliform S	Sec #1		Sampled 5/19/2015	9:15
5139006-01						0.10
		Method	Result	Units	Analysis Date/ Time	
Total Solids		SM 2540-B	4.5	Weight %	05/29/2015 9:00	
Fecal Coliform		SM 9221E 21st Ed.	230	MPN/g dry	05/21/2015 8:35	
Lab Number	Sample Name	Fecal Coliform S	ec #2		Sampled 5/19/2015	9:15
5139006-02						
		Method	Result	Units	Analysis Date/ Time	
Total Solids		SM 2540-B	3.1	Weight %	05/29/2015 9:00	
Fecal Coliform		SM 9221E 21st Ed.	> 52000	MPN/g dry	05/21/2015 8:35	
Lab Number	Sample Name	Fecal Coliform S	Sec #3		Sampled 5/19/2015	9:15
5139006-03	*				:	
		Method	Result	Units	Analysis Date/ Time	
Total Solids		SM 2540-B	4.3	Weight %	05/29/2015 9:00	
Fecal Coliform		SM 9221E 21st Ed.	140	MPN/g dry	05/21/2015 8:35	
Lab Number	Sample Name	Fecal Coliform S	ec #4		Sampled 5/19/2015	9:15
5139006-04						
		Method	Result	Units	Analysis Date/ Time	
Total Solids		SM 2540-B	5.3	Weight %	05/29/2015 9:00	
Fecal Coliform		SM 9221E 21st Ed.	70	MPN/g dry	05/21/2015 8:35	
Lab Number	Sample Name	Fecal Coliform S	ec #6		Sampled 5/19/2015	9:15
5139006-05						
		Method	Result	Units	Analysis Date/ Time	
Total Solids		SM 2540-B	4.2	Weight %	05/29/2015 9:00	
Fecal Coliform		SM 9221E 21st Ed.	> 38000	MPN/g dry	05/21/2015 8:35	

P002/003



Professional Laboratory Services

13035 SW Pacific Hwy Tigard, OR 97223

Tel.: (503) 639-9311 Fax: (503) 684-1588

Molalla, City of

Attn: -

PO Box 248

Molalla OR, 97038

N Phone: (503) 829-5408 **ANALYSIS REPORT**

ORELAP Accredited Lab#: OR-100013

Reported: 06/01/2015 Received: 05/19/15

Sampled By: JE

Sampled: 5/19/15 9:15 am

Work Order: 5139006

Project: Bio-Solids

Project #: N/A

Permit #: 101514

PO #: -

Sampling Location: Molalla WW Pond #1

Sample Matrix: Solid

Lab Number	Sample Name	Fecal Coliform Se	ec #7		Sampled 5/19/2015 9:15
5139006-06					
		Method	Result	Units	Analysis Date/ Time
Total Solids		SM 2540-B	5.1	Weight %	05/29/2015 9:00
Fecal Coliform	¥	SM 9221E 21st Ed.	120	MPN/g dry	05/21/2015 8:35
Lab Number	Sample Name	Fecal Coliform Se	ec #8		Sampled 5/19/2015 9:15
5139006-07					
		Method	Result	Units	Analysis Date/ Time
Total Solids		SM 2540-B	4.5	Weight %	05/29/2015 9:00
Fecal Coliform		SM 9221E 21st Ed.	1100	MPN/g dry	05/21/2015 8:35
Lab Number	Sample Name	Fecal Coliform Se	ec #9		Sampled 5/19/2015 9:15
5139006-08					
		Method	Result	Units	Analysis Date/ Time
Total Solids		SM 2540-B	5.9	Weight %	05/29/2015 9:00
Fecal Coliform		SM 9221E 21st Ed.	30	MPN/g dry	05/21/2015 8:35
Lab Number	Sample Name	Fecal Coliform Se	ec #10		Sampled 5/19/2015 9:15
5139006-09					
		Method	Result	Units	Analysis Date/ Time
Total Solids		SM 2540-B	5.4	Weight %	05/29/2015 9:00
Fecal Coliform		SM 9221E 21st Ed.	10000	MPN/g dry	05/21/2015 8:35
Lab Number	Sample Name	Fecal Coliform Se	ec #5		Sampled 5/19/2015 9:15
5139006-10			•	, , , , , , , , , , , , , , , , , , , ,	
		Method	Result	Units	Analysis Date/ Time
Total Solids		SM 2540-B	5.4	Weight %	05/29/2015 9:00
Fecal Coliform		SM 9221E 21st Ed.	34	MPN/g dry	05/21/2015 8:35

MRL = Minimum Reporting Timit MPN = Most Probable Number

Approved by:_-

Scott Dickman Lab Director

Steve Williams Microbiology Technical Director

BIOSOLIDS, % TOTAL SOLIDS, SEPT. 2015

DATE	DISH #	DISH, DRY WEIGHT, g	SUCTION HOSE DEPTH (CRANK #)	SAMPLE VOLUME, mL	DISH WITH SLUDGE WEIGHT, g	WET SLUDGE WEIGHT, g	DRIED DISH WITH SAMPLE, g	DRY SOLIDS, g	% TOTAL SOLIDS
9/8/15	Α	72.0734	15,10,13	5	76.1049	4.0315	72.2189	0.1455	3.61
9/9/15	С	75.0760	10	5	79.7810	4.7050	75.2533	0.1773	3.77
9/10/15	В	87.5548	10	5	91.9694	4.4146	87.7244	0.1696	3.84
9/11/15	D	88.5627	10	5	92.4354	3.8727	88.7174	0.1547	3.99
9/14/15	А	72.0738	8	5	76.9648	4.8910	72.2806	0.2068	4.23
9/15/15	С	75.0775	10	5	78.4680	3.3905	75.1858	0.1083	3.19
9/16/15	D	88.5606	10	5	99.0942	10.5336	88.7088	0.1482	1.41
								AVERAGE:	3.43

Plant-available N, lb/Acre

Site	Field	Plant- available N lb/Acre	Crop	Acres Applied	Gallons Applied	DT Biosolid/ Day	DT Biosolid/ Acre	N lb/DT
Mt. Hope	E side	33.0	Triticale	26.33	337,000	52.50	2.00	16.6
Thomas Rd.	F4	10.0	Fescue	9.68	101,000	5.90	0.60	15.9
Thomas Rd.	F7a	29.0	Orchard Grass	5.60	95,000	10.30	1.80	15.9
Thomas Rd.	F6	39.0	Fescue	19.34	278,500	47.50	2.50	15.9
Thomas Rd.	F5	37.0	Orchard Grass	9.32	146,000	21.40	2.30	15.9

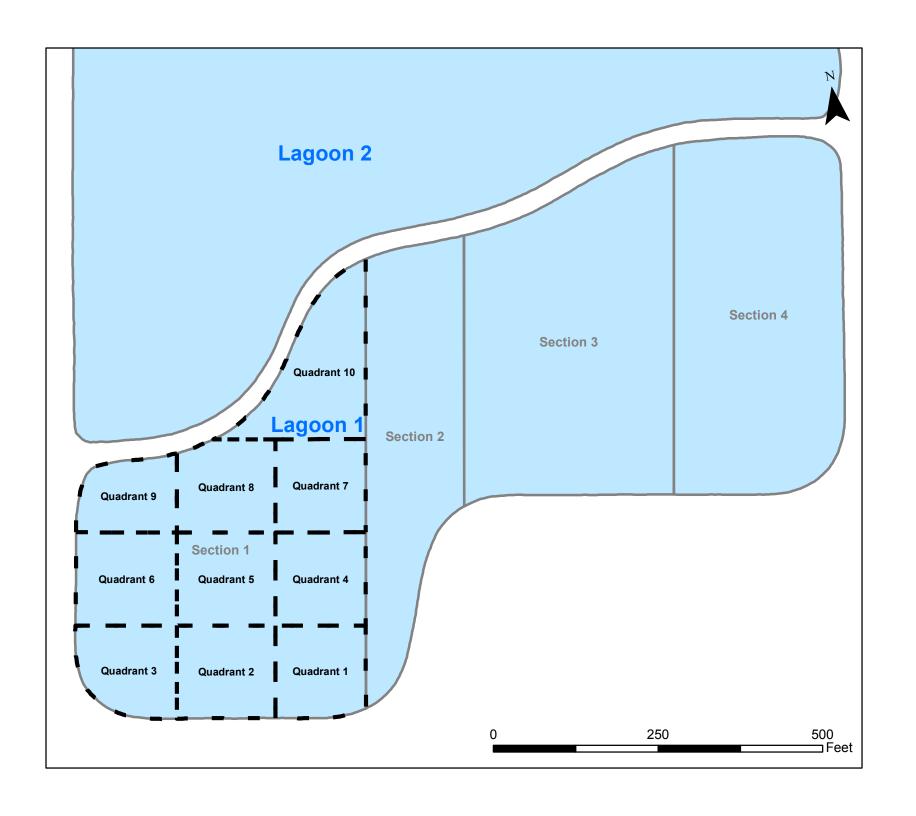
Date	Truck capacity	No. of	Gal	Total solids	lb/gal	Daily	Daily	Daily	Daily	DT/ac	lb N/DT	lb N/ac	Agronomic rate	Future
	(gal)	truck loads				wet lb	wet tons	dry tons (DT)	acres				(lb N/ac)	crop
9/8/2015	5,500	5	27,500	3.61%	8.3454	229,499	114.7	4.1	10.6					
	6,000	6	36,000	3.61%	8.3454	300,434	150.2	5.4						
	7,500	6	45,000	3.61%	8.3454	375,543	187.8	6.8						
9/9/2015	5,500	9	49,500	3.77%	8.3454	413,097	206.5	7.8	9.6					
	6,000	9	54,000	3.77%	8.3454	450,652	225.3	8.5						
	7,500	8	60,000	3.77%	8.3454	500,724	250.4	9.4						
9/10/2015	5,500	5	27,500	3.84%	8.3454	229,499	114.7	4.4	6.1					
	6,000	5	30,000	3.84%	8.3454	250,362	125.2	4.8						
	7,500	1	7,500	3.84%	8.3454	62,591	31.3	1.2						
	Field totals		337,000					52.5	26.3	2.0	16.6	33	120	triticale
liosolids ar	oplication rate cal	culations for	Thomas Rd/F	4										
Date	Truck capacity	No. of	Gal	Total solids	lb/gal	Daily	Daily	Daily	Daily	DT/ac	lb N/DT	lb N/ac	Agronomic rate	Future
	(gal)	truck loads			, 8	wet lb	wet tons	dry tons (DT)	acres	,		,	(lb N/ac)	crop
9/16/2015	5,500	5	27,500	1.41%	8.3454	229,499	114.7	1.6	9.7				(1211,00)	4.44
-,,	6,000	6	36,000	1.41%	8.3454	300,434	150.2	2.1	•					
	7,500	5	37,500	1.41%	8.3454	312,953	156.5	2.2						
	Field totals		101,000			, , , , , , , , , , , , , , , , , , , ,		5.9	9.7	0.6	15.9	10	120	fescue
				_										
Date	pplication rate cal Truck capacity	No. of	Gal	7a Total solids	lb/gal	Daily	Daily	Daily	Daily	DT/ac	lb N/DT	lb N/ac	Agronomic rate	Future
Dute	(gal)	truck loads	ou.	rotar sonas	, 60.	wet lb	wet tons	dry tons (DT)	acres	5.,40		12 11/40	(lb N/ac)	crop
9/15/2015	5,500	3	16,500	3.19%	8.3454	137,699	68.8	2.2	4.4				(10 11/ 00)	сгор
5, 25, 2325	6,000	4	24,000	3.19%	8.3454	200,290	100.1	3.2						
	7,500	3	22,500	3.19%	8.3454	187,772	93.9	3.0						
9/16/2015		2	11,000	1.41%	8.3454	91,799	45.9	0.6	1.2					
, , ,	6,000	1	6,000	1.41%	8.3454	50,072	25.0	0.4						
	7,500	2	15,000	1.41%	8.3454	125,181	62.6	0.9						
	Field totals	L L	95,000					10.3	5.6	1.8	15.9	29	120	orchard gra
Biosolids ap Date	plication rate cal				Ile /eel	Deile	Daile	Deile	Deile	DT/ac	lb N/DT	lb N/ac		F
Date	Truck capacity	No. of	Gal	Total solids	lb/gal	Daily	Daily	Daily	Daily	DI/ac	וט אין טו	ID IN/ac	Agronomic rate	Future
0/40/2045	(gal)	truck loads	46 500	2.040/	0.2454	wet lb	wet tons	dry tons (DT)	acres				(lb N/ac)	crop
9/10/2015	5,500	3	16,500	3.84%	8.3454	137,699	68.8	2.6	5.2					
	6,000 7,500	3 0	18,000 0	3.84%	8.3454 8.3454	150,217 0	75.1 0.0	2.9 0.0						
7/11/2015	· · ·			3.84%		-			C 1					
9/11/2015	5,500 6,000	6 7	33,000 42,000	3.99% 3.99%	8.3454 8.3454	275,398 350,507	137.7 175.3	5.5 7.0	6.1					
	7,500	5	42,000 37,500	3.99%	8.3454 8.3454	350,507	175.3	6.3					1	
0/1//2015		5 7		3.99% 4.23%	8.3454 8.3454		160.6	6.8	8.0					
9/14/2015	5,500 6,000	8	38,500 48,000	4.23% 4.23%	8.3454 8.3454	321,298 400,579	200.3	6.8 8.5	6.0				1	
	7,500	6	45,000	4.23%	8.3454	375,543	187.8	7.9						
	Field totals	U	278,500	4.23/0	0.3434	373,343	107.0	47.5	19.3	2.5	15.9	39	120	fescue
								· · -						
	plication rate cal				16/1	Dette	Delle	Della	Dell	DT/	II. N: /D=	Ila Ni /- :	I A	F
Date	Truck capacity (gal)	No. of truck loads	Gal	Total solids	lb/gal	Daily wet lb	Daily wet tons	Daily dry tons (DT)	Daily acres	DT/ac	lb N/DT	lb N/ac	Agronomic rate (lb N/ac)	Future crop
9/14/2015	5,500	2	11,000	4.23%	8.3454	91,799	45.9	1.9	4.5	 		 	(ID IN/ ac)	стор
J, 17, 2013	6,000	2	12,000	4.23%	8.3454	100,145	50.1	2.1	7.5				1	
	7,500	3	22,500	4.23%	8.3454 8.3454	187,772	93.9	4.0						
9/15/2015		6	33,000	3.19%	8.3454	275,398	137.7	4.4	4.8					
, 13, 2013		5	30,000	3.19%	8.3454	250,362	125.2	4.4	4.0				1	
	6,000 7,500	5	37,500	3.19%	8.3454	312,953	156.5	5.0						

137.6

70.3

957,500

2015 totals



MOLALLA WWTP LAGOON #1 SLUDGE DEPTH, FT Tuesday, July 28, 2015

SECTION #1	9.0
SECTION #2	9.5
SECTION #3	9.5
SECTION #4	10.0
SECTION #5	9.5
SECTION #6	9.25
SECTION #7	9.0
SECTION #8	8.0
SECTION #9	9.0

AVERAGE SLUDGE DEPTH	9.19
----------------------	------

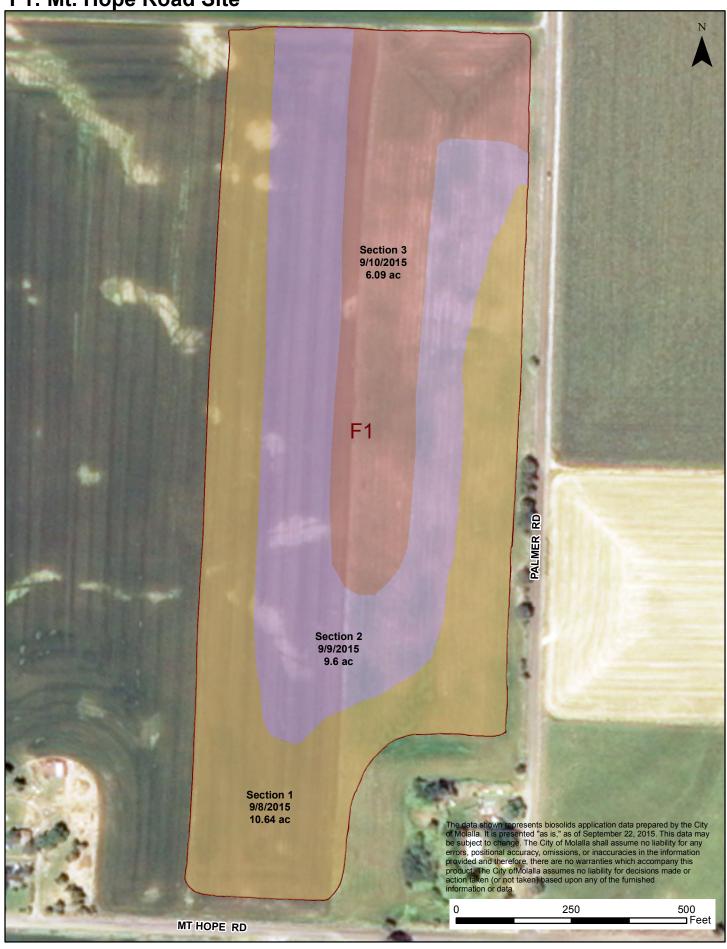
MOLALLA WWTP LAGOON #1 SLUDGE DEPTH, FT THURSDAY SEPTEMBER 17,2015

SECTION #1	4.0
SECTION #2	4.5
SECTION #3	4.5
SECTION #4	4.5
SECTION #5	5.0
SECTION #6	4.5
SECTION #7	5.0
SECTION #8	4.5
SECTION #9	4.0

AVERAGE SLUDGE DEPTH	4.5
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Mt Hope Site - Area Map F1 MT HOPE RD **Application Areas** Piuser Land

F1: Mt. Hope Road Site

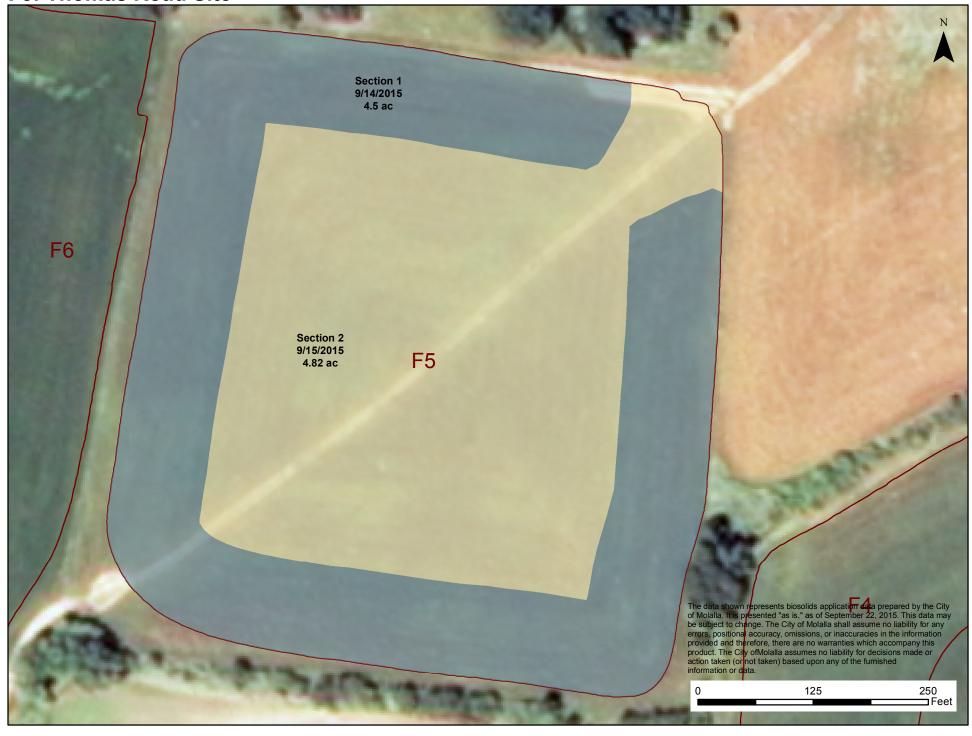


Thomas Rd Site - Area Map DRYLAND RD THOMAS RD F6 F5 F4 F7a Application Areas Piuser Land

F4: Thomas Road Site



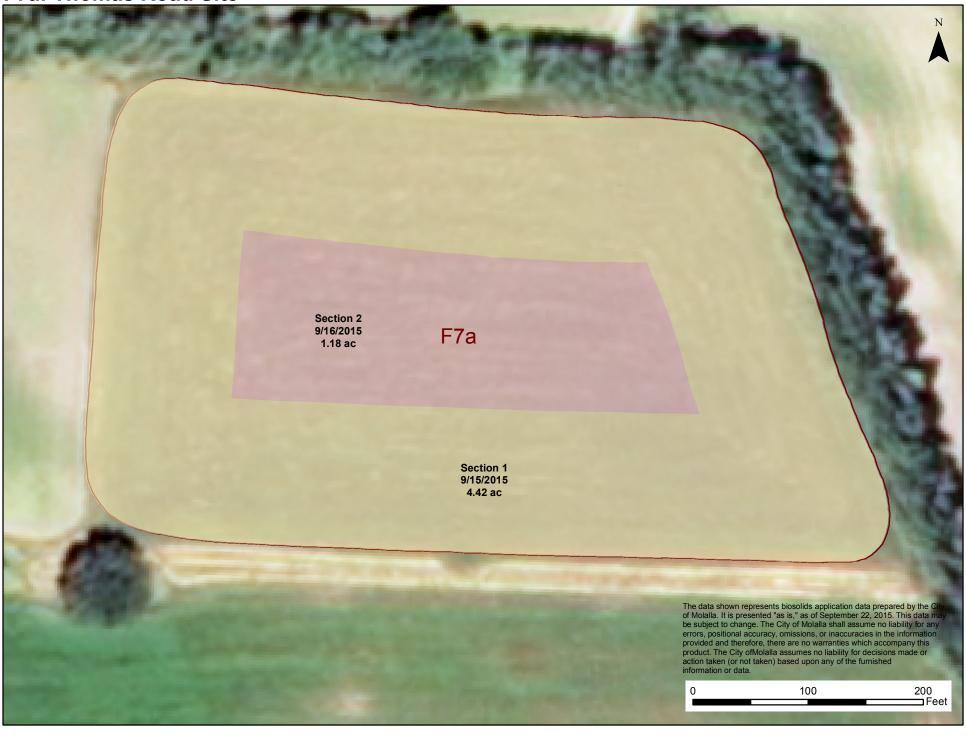
F5: Thomas Road Site



F6: Thomas Road Site



F7a: Thomas Road Site



2015 Biosolids Land Application Certification Statements

Ralph Piuser - Mt. Hope Road Sites

City of Molalla

Biosolids Preparer (City of Molalla) Certification Statement:

I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in Sec. 503.32(b) and the vector attraction reduction requirement in Sec. 503.33(b)(2) (40 day bench scale anaerobic digestion test) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Representative Name_	Jason aifford	-
Representative Signatu	ire Jann Cefu	

Land Applier (Heard Farms) Certification Statement:

I certify, under penalty of law, that we will haul and apply the biosolids from the City of Molalla and apply them where directed. We will also keep track of the loads and gallons applied by each driver logging his loads. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Representative of Heard Farms Names Krokund African Representative Signature Kirkund African Representative Signature

Biosolids Spill Prevention and Response Plan

All contractors hired by the City of Molalla to transport biosolids to the land application sites will be required to review and sign this Spill Prevention and Response Plan and to strictly comply with the contents of the plan. Contractors shall also be required to review this Spill Prevention and Response Plan with all staff who will be engaged in hauling of biosolids and to keep a copy of it in any vehicle that will be used for hauling.

Spill Prevention Measures

To minimize the possibility of spills, haulers will implement the following measures:

- All vehicles will be regularly inspected and serviced.
- Drivers will not exceed the posted speed limit and will travel only at speeds appropriate for current road conditions.
- Vehicles will be inspected for leakage once filled at the City's wastewater treatment plant (WWTP).
- Drivers will not haul biosolids during periods of inclement weather.

To promptly and properly respond to a spill, all vehicles will be equipped with:

- A cell phone
- Gloves and boots
- Hazard flares
- Safety glasses
- Reflective traffic cones
- One shovel
- One 50 lb bag of hydrated lime

Spill Response Measures

In the event of a spill, the driver will immediately implement the following measures, to the maximum extent possible:

- Safely exit the roadway.
- Don appropriate personal protective equipment.
- Place reflective traffic cones along roadway leading up to the spill (use flares if needed).
- If the spill has or could result in an emergency situation: dial 911.
- Contact both Jennifer Cline (Public Works Director) at (503) 793-7026 (cell) and Jason Clifford (WWTP Lead Operator) at (503)793-5283 (cell) to report the incident.

- If the spill is below 50 gallons, use a shovel to build a berm around the spill area to contain the biosolids.
- If the spill is more than 50 gallons, contact the City's PWD Director, the Public Works Foreman, the Lead Operator at the WWTP, or the After Hours Emergency Number to have the City's vactor truck dispatched to the spill site (see attached contact phone numbers). The vactored material must either be hauled to the application site or returned to the WWTP. All residual biosolids at the spill site must be cleaned up manually and the area must be decontaminated (through lime application) if possible.
- If the spill (regardless of size) is odorous or may pose a risk to human health or the environment, use hydrated lime to cover all exposed biosolids.
- Take any other actions reasonably requested by the City to prevent harm to human health and the environment.

Notification Measures

As listed above, contractor shall immediately report any spill incident to listed City staff and discuss whether additional notifications are necessary. City shall be responsible for making such additional notifications, unless City specifically instructs contractor to do so.

- If the spill is on a state or interstate roadway and may obstruct traffic for an extended period of time, contact the Oregon State Department of Transportation office (see attached contact phone numbers).
- The Oregon Department of Environmental Quality (DEQ) must be notified within one hour, through the Oregon Emergency Response System (OERS), of any spills more than 50 gallons. Additionally, all spills adjacent to drainage ditches or drainage ways should be reported. The telephone number for OERS is 1-800-452-0311 (24-hour service).

Contacts

Emergency: 911

City of Molalla

- Jennifer Cline, Public Works Director
 - o 503-759-0218 (office)
 - o 503-793-7026 (cell)
- Dennis Welle, Public Works Foreman
 - o 503-793-4238
- Jason Clifford, Lead Operator at the WWTP
 - o 503-793-5283 (cell)
- After Hours Emergency Number
 - o 503-829-4160

Backup Vactor Truck Companies

Bravo Environmental
 4927 NW Front Ave Portland, OR 97210

Office: 503-261-9800

Ron Bascue, Sales Manager, 503-680-9756 (mobile)

Oregon Emergency Response System (OERS)

• 1-800-452-0311 (24-hour service)

Oregon State Department of Transportation

• Regional Dispatch: (503) 362-0457

Department of Environmental Quality

Pat Heins: (503) 229-5347; Heins.pat@deq.or.state.us