

Annual Biosolids Report

Calendar year covered by this report: 2008.

An annual biosol biosolids, sewag	lids report is required fo e sludge, or septage and	r all facilities in Washington that trea Tthat require a biosolids permit.	t, store, use, or dispose of
If you have more	than one separately per	mitted facility, you must complete a re	eport for each facility.
B .	is also available on the		
Complete this for	m according to the type	of facility you have:	
If you need additi	ional space anywhere or	this form, either add it to the form or	provide attackers
	the annual report is	in a form, entire and it to the form of	provide dilacriments.
The due dute joi	ne annuai report is	•	
SECTION A:	FACILITY INFOR	MATION	
(1) Facility infor			
		nter Treatment Facility Owner: City of	. V-1-:
(b) Physical a	ddress: 2220 F. Viola St	t. Yakima WA 98901. Latitude: 46 de	1 akima
Longitude	: 120 degrees 27' 52 W	. 1 akilia WA 98901. Latitude. 40 di	egrees 34° 48″ N .
	ldress: 2220 E. Viola St.		
(2) Facility opera			
(a) Name:	Mike Price	Title: Process Control S	Supervisor
	(509) 249-6824		
(3) Primary conta	act.		
(a) Name:	Daryl Bullard	. Title: Wastewater Tre	atment Chief Operator
(b) Phone:	(509) 249-6830	Email:	
(4) Responsible o	fficial.		
(a) Name:	Scott Schafer	. Title: Acting Was	tewater Manager
(b) Phone	(509) 575-6077	. Email:	

Septage management facility (land apply septage or prepare septage for land application). (f)

(5) Facility type. Please check all that apply.

(a) \boxtimes Major sewage treatment facility (design flow of ≥ 1 mgd or serving a population of $\geq 10,000$).

Composting facility (receive biosolids or sewage sludge from others for composting).

Minor sewage treatment facility (design flow of < 1 mgd and serving a population of < 10,000).

Class I sewage treatment facility (have an industrial pretreatment program or designated as Class I).

ECY 070-125 (10/08)

(c)

(d)

(e)

(g)

SECTION B: WASTEWATER TREATMENT PLANTS, COMPOSTING FACILITIES, AND OTHERS WHO TREAT BIOSOLIDS OR SEWAGE SLUDGE

(1	BIG	osonas or se	wage sludge	e producti	on and mai	nagement	. Please enter amo	unts in dry U.S. tons.						
	(a)	(a) Produced by your facility: <u>1606 dry tons</u> . (b) Received from another facility: <u>0</u> . Facility name:												
	(b)	Received fi	om another	facility:	0 Facili	ty name:								
									20					
	(d)	Sent to a m	unicipal soli	d waste lar	dfill for dis	posal:	0Landfill name	2						
		g) Accumulated or stored in a lagoon (include amount in treatment and storage lagoons):												
		h) Sent to a beneficial use facility for land application: 1606 dt. Facility name: Natural Selection Farms												
		i) Total land applied or sold/given away: Please enter subtotals in the table below.												
		Applied to an Applied to a forest Applied to a public contact Applied to a reclamation site:												
		agricultural site: 1606 site: site: site:												
		dry tons.												
		Applied to a lawn or home garden: Sold/given away in bulk: Sold/given away in a bag/other container: Sold/given away in compost bag/other container:												
(2)	Lan	d applicati	on site infor	mation (n	ot required	if your lar	nd applier will be s	submitting the informat	ion).					
	Land application site information (not required if your land applier will be submitting the information). (a) Location: Dry tons applied: Acres applied to:													
	Vegetation grown: Pounds of nitrogen/acre/year needed for vegetation:													
	(b) Location: Dry tons applied: Acres applied to:													
	Vegetation grown: Pounds of nitrogen/acre/year needed for vegetation:													
(3)	3) Solid waste feedstocks used for composting. Please enter amounts in dry U.S. tons in the table below.													
							stock:							
	Am	nount:	County:			Amor	unt: Count	y:						
. ,			WAC 173-30	,										
								ng the past year? 6						
								yes, explain: No						
								s, explain: No						
						Please che	ck all that apply in	the table below.						
			. 1 🔲 Cla		10	Class	A-Alt. <u>3 (PFRP):</u>	Composting. Heat dry	ing.					
	(Tim	ne/Temperatur	1	e/Temperatu	re/%	☐ Heat tre	atment. Thermoph	nilic aerobic digestion. Bradiation. Pasteurization	eta					
		O1 A A14	Solids)	ss B-Alt. 1	The co									
		Class A-Alt. uivalency)	(7 Samp			et destroy.	PSRP): Aerobic	Class B-Al	t. 3					
	(Equ	avalency	(1 Sump	ies)		Air dryir sting. [] Li	ng. X Anaerobic diges	stion. (Equivalency)						
5) [Vect	or attractio	n reduction	(see WAC				oly in the table below.						
	X A	dt. 1 (38%	Alt. 1a	,	Alt. 1b	(Bench	☐ Alt. 2	Alt. 3 (Aerobic proc	ess)					
	VSR)		test-anaerobi		test-aerobic)		(SOUR)							
		Alt. 4 (<i>pH</i>	∐ Alt. 5 (≥	>75%	☐ Alt. 6 (2	≥90%	☐ Alt. 7	Alt. 8 (Incorporation	1)					
	adjus	stment)	solids)		solids)		(Injection)							

SECTION C: SEPTAGE MA	NAGEMENT FA	CILITIES	
(1) Septage production and manag	gement. Please enter a	mounts in gallons.	
(a) Received/pumped: 0	*		
(b) Land applied:0			
(c) Stored:0			
(d) Managed in another manner:	0 Please	describe:	
(2) Pathogen and vector attraction table below.	reduction (see WAC	173-308-270(3)). Plea	se check all that apply in the
Immediate injection.		th 6 hours.	H stabilization.
(3) Land application site informati			
(a) Location:		Gallons applied: _	Acres applied to:
Vegetation grown:	Pound	ls of nitrogen/acre/year	needed for vegetation:
(b) Location:		Gallons applied:	Acres applied to:
Vegetation grown:	Pound	ls of nitrogen/acre/year	needed for vegetation
(c) Location:		Gallons applied:	Acres applied to:
Vegetation grown:		The state of the s	needed for vegetation:
SECTION D: BIOSOLIDS BE	ENEFICIAL USE	FACILITIES	
(1) Biosolids received and managed			
(a) Total received by your facility	0 Please	e enter subtotals in the	table below.
Facility Name:	Amount:	Facility Name:	Amount:
Facility Name:	Amount:	Facility Name:	Amount:
Facility Name:	Amount:	Facility Name:	. Amount:
(b) Land applied:			
(c) Stored:			
(d) Managed in another manner: _	. Please de	escribe:	
(2) Land application site informatio			
(a) Location:		. Dry tons applied:	Acres applied to:
Vegetation grown:	. Pounds	s of nitrogen/acre/year	needed for vegetation:
(b) Location:		Dry tons applied:	Acres applied to:
Vegetation grown:	Pounds	of nitrogen/acre/year	needed for vegetation
(c) Location:		Dry tons applied:	Acres applied to:
Vegetation grown:	Pounds	of nitrogen/acre/year	needed for vegetation:
(d) Location:		. Dry tons applied:	Acres applied to
Vegetation grown:	Pounds	of nitrogen/acre/year	needed for vegetation:
(e) Location:		. Dry tons applied:	Acres applied to:
Vegetation grown:	Pounds	of nitrogen/acre/year 1	needed for vegetation:
(f) Location:		Gallons applied:	Acres applied to:
Vegetation grown:	Pounds	of nitrogen/acre/year i	needed for vegetation:
(g) Location:		. Dry tons applied:	Acres applied to:
Vegetation grown:	Pounds	of nitrogen/acre/year i	needed for vegetation:

SECTION E: ATTACHMENTS, CERTIFICATION STATEMENTS, AND SUBMITTING YOUR REPORT

- (a) X Analytical data for pollutant concentrations if testing was required.
- (b) Analytical data for pathogen reduction if testing was required.
- (c) X Analytical data for vector attraction reduction if testing was required.
- (d) X Other. Please describe: Pollutant Summary, Production Record.
- (2) **Certification statement** (must be signed by the Responsible Official listed in Section A or by a duly authorized representative).

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Signature:

| Title: | ACTING WASTEUMED MANAGED. | Date: | 1/3 | 09

(3) Submitting your annual report.

- (a) X Original, in hardcopy form, to Ecology headquarters.
- (b) X Copy to any Ecology region where your biosolids, sewage sludge, or septage will be treated, stored, disposed, or applied to the land. Ecology encourages you to submit your report electronically.
- (c) X Copy to any local health jurisdiction where your biosolids, sewage sludge, or septage will be treated, stored, disposed, or applied to the land. If you wish to submit your report electronically, you must get approval to do so from the local heath jurisdiction.
- (d) Copy to EPA Region 10 by if your facility is a "Major" or "Class I" facility. If you wish to submit your report electronically, you must get approval to do so from EPA Region 10.
- (4) Mailing addresses (for email addresses or other information, contact your regional biosolids coordinator).

Department of Ecology—Eastern Regional Office
North 4601 Monroe
Spokane WA 99205-1295
ATTN: Biosolids Coordinator
Reception Phone: (509) 329-3400
Department of Ecology—Southwest Regional Office
PO Box 47775
Olympia WA 98504-7775
ATTN: Biosolids Coordinator
Reception Phone: (360) 407-6300
USEPA Region 10—NPDES Compliance Unit
1200 Sixth Avenue, OCE-133
Seattle WA 98101
ATTN: Biosolids Reports
Reception Phone: (800) 424-4372

If you require this publication in an alternate format, please contact the Solid Waste & Financial Assistance Program at 360-407-6900. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

Total volatile solids (% of TS) C) Conventionals Phosporous (total) Nitrate Nitrogen Ammonium nitrogen (total) Organic Nitrogen Total Kjeldahl nitrogen B) Nutrients Copper Total solids Ammonia nitrogen (total) Nickel Sodium Selenium Molybdenum Mercury Chromium Cadmium Arsenic Sample Description: Sample Origin: A) Pollutants Lab Sample No: Matrix: Date Received by Lab: SM3030D/SM3113B BIOSOLIDS CENTRIFUGE CONVEYOR COMPOSITE BIOSOLIDS #6 SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B 2008 BS #6 SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B 12/4/2008 SM3030D/SM3113B SM4500NorgC SM4500NO3-E SM4500-NH3N EPA 200.7 SM2540B SW3112B Analytica Method (As Recvd.) (Dry wt.) 15,700 70,100 4,570 Results 8.76 0.278 19.4 1,597 8.69 5.87 ND 63.6 269 25.9 15,700 70,100 Results 4,570 8.76 19.4 63.6 0.278 0.922 1,597 673 8.69 5.87 ND 25.9 269

mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg

9 9 9

12/26/2008

12/12/2008 12/10/2008

57, 17

75, -

400

12/11/2008

1/7/2009

7500, 2800

12/30/2008 12/30/2008

420, 420

100, 100

mg/kg mg/kg mg/kg mg/kg mg/kg

0.5

_

12/30/2008 12/18/2008

4300, 150C 840, 300

12/18/2008

75, 41 85, 39

0.2

Units

Detection

Limit

Analyzed Date

Tables 1,3 Comments

Limits

mg/kg mg/kg mg/kg mg/kg

51.5

12/4/2008

Not Performed

Not Performed

12/4/2008 12/4/2008

%%

0.01%

Not Performed

mg/kg

12/4/2008

Zinc

Lead

YAKIMA REGIONAL WASTEWATER TREATMENT PLANT

ANALYTICAL RESULTS

nductivity al carbon er TES:	Salmonella Viruses Helminths G) Additional Analyses	F) Alternative Pathogens	Potassium (total/extractable) Sulfur (total/extractable)	Magnesium (total/extractable) Manganese (total/extractable)	Calcium (total/extractable) Chloride (total/extractable) Iron (total/extractable)	E) Recommended Nutrients Boron (total/extractable)	recal coliform	D) Bacteriological
SM3030D/SM3113B			SW846 6010	SW846 6010 SW846 6010 SW846 6010	SW846 6010			Analytical Method
10.1			1,831	9,914 3,644	21,254			Results Results (As Recvd.) (Dry wt.)
10.1	vie		1,831	9,914 3,644	21,254			Results (Dry wt.)
std units dS/m mg/kg mg/kg	MPN/4 gms PFU/4 gms viable ova/4 gms	mg/kg	mg/kg mg/kg	mg/kg mg/kg	mg/kg mg/kg mg/kg	mg/kg	MPN/gm	Units
_			75 50	125 250	625			Detection Limit
12/31/2008			12/10/2008	12/9/2008 12/10/2008	12/12/2008			Date Analyzed
Not Performed Not Performed Not Performed	Not Performed Not Performed Not Performed	Not Performed		Not renotified	Not Performed		Not Performed	Limits Tables 1,3 Comments

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13 For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application.

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify. Results for F) Alternative Pathogens are reported per 4 grams of total solids.

Sample Origin: Sample Description:

BIOSOLIDS #5 CENTRIFUGE CONVEYOR COMPOSITE BIOSOLIDS

Matrix: Date Received by Lab: Lab Sample No:

10/16/2008 2008 BS #5

Total solids Total volatile solids (% of TS)	C) Conventionals	Phosporous (total)	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonium nitrogen (total)	Nutrients		Zinc	Sodium	Selenium	Nickel	Molybdenum	Mercury	Lead	Copper	Chromium	Cadmium	Arsenic	A) Pollutants	
SM2540B		EPA 200.7	SM4500NO3-E SM4500NorgC	SM4500-NH3N		CINICOCOL/CIVIO I ISB	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3112B	SM3030D/SM3113B	SM3030D/SM3143B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B		Analytical Method
20.4		16,200	17.2 60,300	6,320		/32	076	22 0	<u> </u>	20.6	20.67	46.7	378	20.7	7.40	3 2			Results Results (As Recvd.) (Dry wt.)
20.4		16,200	17.2 60,300	6,320		732	970	ì	12.1	20.6	0.677	46.7	318	15.7	2.40	3 N			Results (Dry wt.)
%%		mg/kg mg/kg	mg/kg mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			Units
0.01%		12.3				2.53	88.4	12.6	3.79	5.05	0.076	13.1	1.52	1.14	1.52	12.63			Detection
10/21/2008		10/23/2008	10/24/2008 10/21/2008	10/23/2008		11/20/2008	11/20/2008	11/20/2008	11/20/2008	11/20/2008	11/21/2001	11/20/2008	11/20/2008	11/20/2008	11/20/2008	11/20/2008		maiyzed	Date
Not Performed		Not Performed	Not Performed			7500, 2800		100, 100	420, 420	75	57, 17	840, 300	4300, 1500		85, 39	75, 41		lables 1,3 Comments	Limits

nductivity al carbon 'er TES:	Sairrionella Viruses Helminths G) Additional Analyses pH	F) Alternative Pathogens	Sulfur (total/extractable) SW	٣			e e	E) Recommended Nutrients Boron (total/extractable)	GCAI COIIIOI III	Cool coliform	
SM3030D/SM3113B			SW846 6010	SW846 6010	SW846 6010	SW846 6010	SW846 6010				Analytical Method
9.60			1,520	224	3,940	9,190	23,200				Results Results (As Recvd.) (Dry wt.)
9.60	via _		1,520	224	3,940	9,190	23,200				Results (Dry wt.)
std units dS/m mg/kg mg/kg	MPN/4 gms PFU/4 gms viable ova/4 gms		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg mg/kg	mg/kg	MPN/gm		Units
1.26			75.8	<u> </u>	10 1	л Ол	50.5				Detection Limit
11/20/2008			11/20/2008	11/20/2008	11/20/2008	11/20/2000	11/20/2008				Date Analyzed
Not Performed Not Performed Not Performed	Not Performed Not Performed Not Performed	Not Performed				Not Performed	Not Performed		Not Performed		Limits Tables 1.3 Comments

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13

For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application.

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify.

Results for F) Alternative Pathogens are reported per 4 grams of total solids.

Sample Origin: Sample Description: BIOSOLIDS PRIORITY POLLUTANT METALS CENTRIFUGE CONVEYOR GRAB BIOSOLIDS 10/6/2008 2008 Q4 BS PP

Matrix: Date Received by Lab: Lab Sample No:

	A) Foliulants	Antimony	Arsenic	Bervllium	Cadmium	Charitan	Cironium	copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
Analytical Method		SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3443B	ONIOCOUD/ONIO I I 3B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3112B	CANADOOD (CANADA ADD		SM3030D/SM3113B	SM3030D/SM3113D	SM3030D/SM3113B	SWSUSUD/SWS113B
Results (Dry wt.)		ND	S	į	Z	2.47	16.3	307	0 0	2 2 3	0.434	11.2	S C	0.0	2	727
Units		ma/ka	ma/ka	64/6	mg/kg	mg/kg	ma/ka	ma/ka		119/Kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Detection Limit		11 A	1 C	14.2	0.284	1.70	1 28	1 70		14.8	0.085	4.26	14.2	1.42	11.4	2.84
Date		11/00/0000	11/20/2000	11/20/2008	11/20/2008	11/20/2008	11/20/2000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11/20/2008	11/20/2008	11/21/2008	11/20/2008	11/20/2008	11/20/2008	11/20/2008	11/20/2008

Sample Origin: Sample Description: BIOSOLIDS PRIORITY POLLUTANT METALS CENTRIFUGE CONVEYOR GRAB BIOSOLIDS 9/23/2008

Matrix: Date Received by Lab: Lab Sample No:

2008 Q3 BS PP

Antimony Arsenic Beryllium Cadmium Chromium Chro	A) Bollistanto
SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B	Analytical Wethod
ND ND ND 2.43 24.5 294 57.3 0.935 17.0 ND 10.5 ND	Results (Dry wt.)
mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Units
9.71 12.1 0.243 1.46 1.09 1.46 12.6 0.291 3.64 12.1 1.21 9.71 9.71	Detection Limit
10/30/2008 10/30/2008 10/30/2008 10/30/2008 10/30/2008 10/30/2008 10/31/2008 10/30/2008 10/30/2008 10/30/2008 10/30/2008 10/30/2008	Date Analyzed

Sample Origin:
Sample Description:
Watrix:
Date Received by Lab:
Lab Sample No:

BIOSOLIDS #4 CENTRIFUGE CONVEYOR COMPOSITE BIOSOLIDS 8/11/2008 2008 BS #4

Total solids Total volatile solids (% of TS)	Phosporous (total) C) Conventionals	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonia nitrogen (total) Ammonium nitrogen (total)	B) Nutrients		Zinc	Sodium	Nickei	Molybdenum	Mercury	Lead	Copper	Chromium	Cadmium	Arsenic	A) Pollutants
SM2540B	EPA 200.7	SM4500NO3-E SM4500NorgC	SM4500-NH3N		ONIOCOUD/SINGTISB	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3112B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	Analytical Method
20.3	16,700	64.0 62,100	7,540		868	1,953	ND	12.2	16.3	0 713	30/	30.3	ນ - ນ -	1 2	5	Results (As Recvd.)
20.3	16,700	64.0 62,100	7,540		859	1,953	ND	12.2	16.3	00.3	36/	33.3) - - -	1 N	5	Results (Dry wt.)
%	mg/kg	mg/kg mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		Units
0.01%	49.3				Ŋ	400	5 1	לח נ	م 0.5	0.5	_	0.4	0.2	2		Detection Limit
8/19/2008	8/20/2008	8/18/2008 8/19/2008	8/18/2008		8/22/2008	8/25/2008	8/18/2008	8/18/2008	9/3/2008	9/4/2008	8/23/2008	9/11/2008	8/17/2008	8/22/2008		Date Analyzed
Not Performed	Not Performed	Not Performed			7500, 2800		100 100	^5, -	57, 17	840, 300	4300, 1500		85, 39	75, 41		Limits Tables 1,3 Comments

Conductivity Total carbon Silver	G) Additional Analyses	Viruses Helminths	Salmonella		Sulfur (total/extractable)	Potassium (total/extractable)	Manganese (total/extractable)	Iron (total/extractable)	Calcium (total/extractable) Chloride (total/extractable)	E) Recommended Nutrients Boron (total/extractable)		Fecal coliform	D) Bacteriological
SM3030D/SM3113B					01.00 040000	SIVI846 6010	SW646 6010	SW846 6010	SW846 6010				Analytical Method
14.9					1,950	061	3,612	12,480	28,312				Results Results (As Recvd.) (Dry wt.)
14.9		∨ i:			1,950	190	3,612	12,480	28,312				Results (Dry wt.)
std units dS/m mg/kg mg/kg	Q.	PFU/4 gms viable ova/4 gms	MDN/A cms	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg mg/kg	mg/kg	MPN/gm		Units
_					50	75	250	125	625				Detection Limit
8/23/2008					8/25/2008	8/23/2008	8/25/2008	8/23/2008	8/30/2008			Belle Common Discount Common C	Date Analyzed
Not Performed Not Performed Not Performed	Not Performed	Not Performed Not Performed		Not Performed				Not Performed	Not Performed		Not Performed		Limits Tables 1.3 Comments

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13

For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application.

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify. Results for F) Alternative Pathogens are reported per 4 grams of total solids.

Sample Origin:
Sample Description:

Watrix: Date Received by Lab: Lab Sample No: BIOSOLIDS 6/12/2008 BIOSOLIDS #3
CENTRIFUGE CONVEYOR COMPOSITE 2008 BS #3

Total solids Total volatile solids (% of TS)	C) Conventionals	Phosporous (total)	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonia nitrogen (total) Ammonium nitrogen (total)	B) Nutrients		Zinc	Sodium	Selenium	Nickel	Molybdenum	Mercury	Lead	Copper	Chromium	Cadmium	Amorica Amorica	A) Pollutanta
SW2540B		EPA 200.7	SW4500NO3-E SW4500NorgC	SM4500-NH3N		SELLEMIS/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	CM3030D/SM3113B	SM30300CM3443D	SILISTANS/TUSINIS	SM3030D/SM3113B	OMISCOUD/SMIST TSB	SM3030D/SM3113B	SM3030D/SM3113B		Analytical Method
22.1		17,700	3.17 62,400	5,520		/58	1,462	Z	7.75	0.0	0.986	42.2	259	28.4	1.46	ND		Results Results (As Recvd.) (Dry wt.)
22.1		17,700	3.17 62,400	5,520		758	1,462	ND	7.75	10.0	0.986	42.2	259	28.4	1.46	ND		Results (Dry wt.)
% %		mg/kg	mg/kg mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		Units
0.01%		45.2				Ŋ	400	υ	5	(J)	0.5	0.5		0.4	0.2	2		Detection Limit
6/18/2008		6/18/2008	6/16/2008 6/17/2008	6/16/2008		7/1/2008	7/1/2008	6/26/2008	6/26/2008	6/24/2008	7/9/2008	6/26/2008	6/27/2008	6/26/2008	6/20/2008	6/27/2008		Date Analyzed
Not Performed		Not Performed	Not Performed	RECORD TO PROPERTY OF THE PROP		7500, 2800		100, 100	420, 420	75	57. 17	840, 300	4300, 1500	1 1 1 1	85. 39	75 41		Limits Tables 1.3 Comments

Analytical Methods are prescribed per federal requirements in MAG 473 000		Conductivity Total carbon	G) Additional Analyses	viruses Helminths	El Alternative Pathogens Salmonella		Sulfur (total/extractable)	Manganese (total/extractable)	Magnesium (total/extractable)	Calcium (total/extractable) Chloride (total/extractable)	Boron (total/extractable)		Fecal coliform	D) Bacteriological
techicomento in MAC 475	SW3030D/SW3113B						SVV846 6010	SW846 6010	SW846 6010 SW846 6010	SW846 6010				Analytical Method
	41.1						2,276	113	10,311 3 762	29,519				Results (As Recvd.)
	41.1			Y i			2,276	113	10,311	29,519				Results (Dry wt.)
	mg/kg mg/kg	std units dS/m		PFU/4 gms viable ova/4 gms	MDN/A COS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg mg/kg	mg/kg	MPN/gm		Units
	۳						50	250 75	125	625			CONTRACTOR OF THE PROPERTY OF	Detection Limit
	7/2/2008						7/1/2008	7/1/2008	7/1/2008	7/1/2008				Date Analyzed
	Not Performed	Not Performed		Not Performed Not Performed		Not Performed			Not Performed	Not Performed		Not Performed		Limits Tables 1.3 Comments

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application. For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify. Results for F) Atternative Pathogens are reported per 4 grams of total solids.

Sample Origin:
Sample Description:
Watrix:
Date Received by Lab: BIOSOLIDS PRIORITY POLLUTANT METALS CENTRIFUGE CONVEYOR GRAB

Lab Sample No: 6/3/2008 BIOSOLIDS

2008 Q2 BS PP

Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Thallium Zinc	A) Pollutants
SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B	Analytical Method
ND ND 1.74 30.8 244 59.7 1.77 9.10 2.04 44.0 ND	Results (Dry wt.)
mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Units
0.5 0.5 0.1 1 10 0.05 2 2 10	Detection Limit
6/20/2008 6/27/2008 6/20/2008 6/20/2008 6/26/2008 6/26/2008 6/26/2008 6/26/2008 6/26/2008 6/26/2008 6/26/2008 7/2/2008 6/26/2008	Date Analyzed

Sample Origin:
Sample Description:
Matrix:
Date Received by Lab:
Lab Sample No:

BIOSOLIDS #2 CENTRIFUGE CONVEYOR COMPOSITE BIOSOLIDS 4/16/2008 2008 BS #2

Total solids Total volatile solids (% of TS)	C) Conventionals	Phosporous (total)	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonia nitrogen (total) Ammonium nitrogen (total)	B) Nutrients	בוווכ	Zinc	Selellull	Nickel	Nickel	Mohadon	Lead	Copper	Cindillum	Cadmium	Arsenic	A) Pollutants	A) D-II. A.
SW2540B		EPA 200.7	SM4500NO3-E SM4500NorgC	SW4500-NH3N		SM3U3UD/SM3T13B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SW3112B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B		Analytical Wethod
20.8		17,500	51.0 66,800	6,490		888	1,328	N	29.8	6.54	ND	42.2	426	21.2	0.464	ND		Results (As Recyd.)
20.8		17,500	51.0 66,800	6,490		888	1,328	ND	29.8	6.54	ND	42.2	426	21.2	0.464	ND		Results (Dry wt.)
%		mg/kg	mg/kg mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		Units
0.01%		12.4				ΟΊ	400	O 1	С'n	СЛ	0.5	0.5	_	0.4	0.2	2		Detection Limit
4/23/2008		5/1/2008	4/23/2008 5/2/2008	4/23/2008		5/5/2008	5/5/2008	5/13/2008	5/27/2008	5/12/2008	6/6/2008	5/28/2008	5/5/2008	5/21/2008	5/23/2008	5/14/2008		Date Analyzed
Not Performed		Not Performed	Not renormed			7500, 2800		100, 100	420, 420	75, -	57, 17	840, 300	4300, 1500	٠	85, 39	75. 41		Limits Tables 1.3 Comments

2008 BIOSOLIDS #2

YAKIMA REGIONAL WASTEWATER TREATMENT PLANT ANALYTICAL RESULTS

Conductivity Total carbon Silver NOTES:	Salmonella Viruses Helminths G) Additional Analyses	Manganese (total/extractable) Potassium (total/extractable) Potassium (total/extractable) Sulfur (total/extractable) F) Alternative Pathogens	Calcium (total/extractable) Chloride (total/extractable) Iron (total/extractable) Magnesium (total/extractable)	D) Bacteriological Fecal coliform E) Recommended Nutrients	
SM3030D/SM3113B		SW846 6010 SW846 6010 SW846 6010	SW846 6010 SW846 6010	Method	Analytical
13.7		4,398 139 1,697	22,166	(As Recvd.) (Dry wt.)	Results
13.7	Via	4,398 139 1,697	22,166	(Dry wt.)	Desuits
std units dS/m mg/kg mg/kg	MPN/4 gms PFU/4 gms viable ova/4 gms	mg/kg mg/kg mg/kg mg/kg	mg/kg mg/kg mg/kg mg/kg	Units MPN/gm mg/kg	
		250 75 39.1	625 125	Limit	
5/5/2008		5/6/2008 5/5/2008 5/5/2008	5/6/2008	Analyzed	
		39.6		Limits Tables 1,3	
Not Performed Not Performed Not Performed	Not Performed Not Performed Not Performed	Not Performed	Not Performed Not Performed	Limits Tables 1,3 Comments Not Performed	

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13

For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application.

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify.

Results for F) Alternative Pathogens are reported per 4 grams of total solids.

Matrix: Sample Origin:
Sample Description: BIOSOLIDS PRIORITY POLLUTANT METALS CENTRIFUGE CONVEYOR GRAB BIOSOLIDS

Date Received by Lab: Lab Sample No: 3/25/2008

2008 Q1 BS PP

Total volatile solids (% of TS)	C) Conventionals	Phosporous (total)	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonia nitrogen (total) Ammonium nitrogen (total)	B) Nutrients		Zinc	Silver	SHETIUM	Nickel	Nielcury	Lead	Copper	Caromium	Charitain		Repulling	Arronio	Optimon:	A) Dollatonto	
SW2540B		EPA 200.7	SW4500NO3-E SW4500NorgC	SM4500-NH3N		SM3U3UD/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3030D/SM3113B	SM3112B	SM3030D/SM3113B		Method	Analytical						
18.3		16,900	7.1 66,700	7,270		692	ND	12.6	ND	19.2	0.552	43.3	395	14.7	3.12	ND	ND	ND		(Dry wt.)	Results
18.3		16,900	7.1 66,700	7,270		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		Units	
% %		mg/kg mg/kg	mg/kg mg/kg mg/kg	mg/kg		4	10	<u></u>	N 1	2 ;	0.05	;	10	<u>.</u>	0.1	N	0.5	5		Limit	Detection
0.01%		13.7																•			
2/22/2007		2/22/2007	2/12/2007 2/14/2007	3/8/2007																	
Not Performed		Not Performed	Not Performed																Constitution of the second of		

Analytical Wethods are prescribed per federal requirements in MAY 0.170 0.000		Total carbon	Conductivity	G) Additional Analyses pH	Helminths	Viruses	Salmonella	F) Alternative Pathogens		Sulfur (total/extractable)	Potassium (total/extractable)	Manganese (total/extractable)	Magnesium (total/extractable)	Iron (total/extractable)	Chloride (total/extractable)	Calcium (total/extractable)	Boron (totallost and Nutrients	000000000000000000000000000000000000000	recal coliform	D) pacteriological	
requirements in IAIAO	SM3030D/SM3113B										SW846 6010	SW846 6010	SW846 6010	SWAAR ROTO	SW846 6010						Analytical Method
70 000 1	38.7									1,910	1010	337	3 287	174 04	21,567						Results Results (As Recvd.) (Dry wt.)
	38.7				Vi.					0.16	307	3,387	10,175		21,567						Results (Dry wt.)
	mg/kg mg/kg	dS/m	std units		PFU/4 gms viable ova/4 gms	MPN/4 gms			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mo/ka	ma/ka	U.B.A.LIM	MADAI		
										82	75	250	125		625						Detection
	3/13/2007									2/27/2007	4/4/2007	4/11/2007	4/4/2007		4/11/2007					Analyzed	Date
	Not Performed	Not Performed	Not Derformed		Not Performed	Not Performed			Not Performed				Not Lettorilled	Not Derformed	Not Performed			Not Performed		lables 1,3 Comments	Limits

alytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

A) Pollutant limits from WAC 173-308-160. Table 1 - Ceiling Concentration Limits, Table 3 - Pollutant Concentation Limits. See also 40CFR 503.13

Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application. For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify. Results for F) Alternative Pathogens are reported per 4 grams of total solids.

Sample Origin:
Sample Description:
Watrix:
Date Received by Lab:
Lab Sample No:

BIOSOLIDS #1 CENTRIFUGE CONVEYOR COMPOSITE BIOSOLIDS 2/12/2008 2008 BS #1

Total solids Total volatile solids (% of TS)	C) Conventionals	Nitrate Nitrogen Total Kjeldahl nitrogen Organic Nitrogen	Ammonia nitrogen (total) Ammonium nitrogen (total)	Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel Selenium Sodium Zinc B) Nutrients	A) 5-11.44-
SW2540B	EPA 200.7	SW4500NO3-E SW4500NorgC	SM4500-NH3N	SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B SM3030D/SM3113B	Analytical Method
21.0	18,000	2.86 68,600	3,570	4.11 0.857 18.7 369 35.0 0.855 20.2 22.9 22.9 3.67 1,260 706	Results (As Recyd.)
21.0	18,000	2.86 68,600	3,570	4.11 0.857 18.7 369 35.0 0.855 20.2 22.9 3.67 1,260 706	Results (Dry wt.)
% %	mg/kg	mg/kg mg/kg mg/kg	mg/kg	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Units
0.01%	47.6			0.2 0.2 0.4 1 0.5 0.5 5 400	Detection
2/14/2008	2/18/2008	2/18/2008 2/19/2008	2/18/2008	3/10/2008 3/11/2008 3/11/2008 3/12/2008 3/12/2008 3/12/2008 3/14/2008 3/14/2008 3/18/2008 3/12/2008 3/11/2008	Date
Not Performed	Not Performed	Not Performed		75, 41 85, 39 4300, 1500 840, 300 57, 17 75, - 420, 420 100, 100 7500, 2800	Limits

NOTES:		Total carbon	Conductivity	PH Analyses	G) Additional Assets	Helminths	Viruses	Salmonella	r) Alternative Pathogens		Sulfur (total/extractable)	Potassium (total/extractable)	Manganese (total/extractable)	Magnesium (total/extractable)	Iron (total/extractable)	Calcium (total/extractable) Chloride (total/extractable)	Boron (total/extractable)	E) Recommended Nutrients		Fecal coliform	D) Bacteriological	
	SM3030D/SM3113B											SW846 6010	SW846 6010	SW846 6010		SW846 6010						Analytical Method
0.0	า										1,000	1 830	386	10,062		19,850					(10,000	Results Results
13.6)				į	<u>≤</u> .					1,830	280	3,630	10,062		19,850					(Diy wt.)	Results
mg/kg	mg/kg	dS/m	std units		SIIIS LEAD OF SIIIS	PFU/4 gms	MPN/4 gms			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ma/ka	mg/kg mg/kg			MPN/gm		SMUO	
-											50	75	250	125		625					Limit	Detection
3/12/2008											3/11/2008	3/11/2008	3/11/2008	3/11/2008	0000	3/11/P					Analyzed	Date
	Not Performed	Not religitled	Not Deformed		Not Performed	Not Performed	Not Performed			Not Performed				Not Performed		Not Performed		140t Performed	Not Dollars	ACTION AND AND AND AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT A	Tables 1,3 Comments	Limits

Analytical Methods are prescribed per federal requirements in WAC 173-308-140. See also 40 CFR 503.8

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Analysis for A) Pollutants, B) Nutrients, C) Conventionals, and D) Bacteriological are all required for land application. For B) Nutrient analyses, see "Managing Nitrogen From Biosolids", Ecology publication #99-508, Ch. 9

Analysis for E) Recommended Nutrients, F) Alternative Pathogens, and G) Additional Analyses are optional.

Results for F) Alternative Pathogens are reported per 4 grams of total solids. Analysis for E) Recommended Nutrients can be either total (for environmental purposes) or extractable (for agronomic purposes). Please specify.

VOLATILE SOLIDS 2008

			2008						
Volatile	Solids	Reduc	tion in % Fo	r Vector A	Attraction F	Reduction			
							AVERAGE	PERCENT	TEM
MONTH	RAW	WAS	AVERAGE IN	PRIMARY 1	PRIMARY 2	PRIMARY 3	OUT	REDUCTION	F°
January	88.2%	88.2%	88.2%	70.7%	71.0%	72.6%	71.4%	66.55%	99.0
February	85.6%	86.2%	85.9%	70.5%	70.1%	70.3%	70.3%	61.15%	98.8
March	85.7%	86.5%	86.1%	66.6%	68.7%	69.5%	68.3%	65.27%	98.9
April	84.0%	86.8%	85.4%	68.5%	68.8%	69.4%	68.9%	62.12%	98.9
May	84.9%	84.8%	84.9%	68.2%	70.5%	69.6%	69.4%	59.44%	97.7
June	83.3%	84.5%	83.9%	64.6%	68.3%	68.7%	67.2%	60.68%	99.1
July	84.3%	86.6%	85.5%	68.1%	67.8%	68.6%	68.2%	63.54%	99.4
August	83.6%	86.3%	85.0%	65.8%	68.1%	68.7%	67.5%	63.15%	99.3
September	81.9%	89.3%	85.6%	69.7%	69.2%	68.6%	69.2%	62.26%	99.2
October	83.3%	89.6%	86.5%	72.3%	71.8%	72.3%	72.1%	59.43%	98.6
November	83.7%	88.2%	86.0%	71.6%	70.2%	71.4%	71.1%	59.85%	99.2
December	85.2%	87.6%	86.4%	68.7%	70.6%	70.8%	70.0%	63.21%	98.9
							High for year	66.55%	99.4
							Low for year	59.43%	97.7
							Average	62.22%	98.9
Notes:	Arithmet	ic average	es used to deter	mine average	s for volatile s	solids.			
	Percents	are enter	ed in as decima	als.					
	Formula	to determ	ine percent red	uction is from	page 4-23 of	EPA's Opera	tional		
		Manual 4	30/9-76-001, "A	Anaerobic Sluc	dge Digestion"				
		Percent r	eduction =		(IN - OUT) X	100%			
		T			IN - (IN X C				

METALS 2008

	Biosolids #1	Biosolids #2	Biosolids #3	Biosolids #4	Biosolids #5	Biosolids #6	Averages	CFR part 40
DATES - 2008	Feb. 12	Apr. 16	Jun. 12	Aug. 11	Oct. 8	Dec. 4		503
								Table 3
Arsenic	4.11	ND	ND	ND	ND	ND	4.11	41
		DL=2	DL=2	DL=2	DL=12.63	DL=2		
Cadmium	0.857	0.464	1.46	1.11	2.40	0.92	1.06	39
Copper	369	426	259	367	318	269	329.4	1,500
Lead	35	42.2	42.2	55.3	46.7	63.6	46.60	300
Mercury	0.855	ND	0.986	0.712	0.677	0.278	0.65	17
		DL=0.5						
Molybdenum	20.2	6.54	10.0	16.3	20.6	8.69	12.52	75
Nickel	22.9	29.8	7.75	12.2	12.1	5.9	12.89	420
Selenium	3.67	ND	ND	ND	ND	ND	3.67	36
		DL=5	DL=5	DL=5	DL=12.6	DL=5		
Zinc	706	888	758	859	732	673	765.4	2,800
CONVENTIONALS								
	Feb. 12	Apr. 16	Jun. 12	Aug. 11	Oct. 8	Dec. 4		
Organic Nitrogen	65,027	60,259	56,877	54,496	53,863	65,521	59,158	
Ammonia Nitrogen	3,570	6,490	5,520	7,540	6,420	4,570	5,520	
litrite + Nitrate N	2.86	51	3.17	64	17.20	8.76	12.83	
otal Phosphorus	18,000	17,500	17,700	16,700	16,200	15,700	16,946	
ercent Solids	21.0%	20.8%	22.1%	20.3%	20.4%	19.4%	20.7%	
lote: (TKN - Amm	nonia) - (Nitri	te+Nitrate) =	= Organic N	itrogen				
eometric average	es were used	on all avera		9				
Ds were not inclu	ded in the av	verages					-	
nits are mg/kg								

							T
Biosolid	s Producti	on for caler	ndar year	2008			
			-				
	FEED		GROSS	CENTRATE	CENTRATE	TOTAL	Weighed
MONTH	FLOW (MG)	FEED CONC.		CONC.	DRY TONS	DRY TONS	
January	2.506	15,176	158.59	592	6.19	152.40	115.32
February	2.161	15,983	144.03	442	3.98	140.05	105.86
March	2.334	16,170	157.38	323	3.14	154.24	110.27
April	3.066	16,250	207.76	475	6.07	201.69	154.67
May	2.912	17,783	215.94	376	4.57	211.37	142.90
June	1.794	15,459	115.65	239	1.79	113.86	106.37
July	2.428	17,289	175.05	139	1,41	173.64	157.86
August	1.640	16,900	115.58	155	1.06	114.52	111.01
September	2.122	17,863	158.07	436	3.86	154.21	138.66
October	2.550	18,894	200.91	711	7.56	193.35	188.98
November	2.065	17,175	147.89	248	2.14	145.76	139.12
December	2.440	15,686	159.60	330	3.36	156.24	134.95
				DRY	TONS/YEAR	1911.31	1605.97
				METRIC DRY	TONS / YEAR	1733.56	1456.61
			/	AVERAGE DRY	TONS/MONTH	159.28	133.83
				METRIC DRY	TONS/MONTH	144.46	121.38
							(//19))
				USTED DRY TO		1605.97	
		<i>P</i>	ADJUSTED IV	ETRIC DRY TO	NS PER YEAR	1456.61	
Adjusted dry	tons = calcula	ated dry tons m	inus 15.9754	percent			
		-					
				/ 2000 - (Flow (Conc X 8.34)	/ 2000
			ed flow ca	lculated fron	n pump run		
	etered flov			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
Veighed	amounts	from haulin	g records	= 15.9754	percent less		
han calc	ulated am	ounts.					
otal dry ton	nage is gross	dry tons minus	centrate dry	tons			
		etic average for					
oncentration	ns are mg/l as	received from	lab report.				