

Henry Bosma and Liberty Dairy

Revised February 2012

Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
SO-09	10164239		Ammonia Solid	1700		mg/Kg
			NO3N/Total Solid	5.69		mg/Kg
			Total Nitrogen/Solid	13700		mg/Kg
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	49	U	ug/Kg
			2,3,4,6-Tetrachlorophenol	49	U	ug/Kg
			2,4,5-T	49	U	ug/Kg
			2,4,5-Trichlorophenol	49	U	ug/Kg
			2,4,6-Trichlorophenol	49	UJ	ug/Kg
			2,4-D	49	U	ug/Kg
			2,4-DB	49	U	ug/Kg
			3,5-Dichlorobenzoic acid	49	U	ug/Kg
			4-Nitrophenol	49	UJ	ug/Kg
			Acifluorfen	49	UJ	ug/Kg
			Alachlor	79	U	ug/Kg
			Atrazine	79	U	ug/Kg
			Azinphos-methyl	79	UJ	ug/Kg
			Bentazon	49	U	ug/Kg
			Benzonitrile, 2,6-dichloro-	79	U	ug/Kg
			Bromoxynil	49	U	ug/Kg
			Chloramben	49	UJ	ug/Kg
			Chlorpyrifos, Ethyl	79	U	ug/Kg
			Clopyralid	49	U	ug/Kg
			DACTHAL-DCPA	11	J	ug/Kg
			Diazinon	79	U	ug/Kg
			Dicamba	4	J	ug/Kg
			Dichlorprop	49	U	ug/Kg
			Diclofop, Methyl	49	U	ug/Kg
			Dinoseb	49	UJ	ug/Kg
			Diuron	79	UJ	ug/Kg
			Endosulfan I	79	U	ug/Kg
			Endosulfan II	79	U	ug/Kg
			Endosulfan Sulfate	79	U	ug/Kg
			Fenhexamid	79	UJ	ug/Kg
			Fenpropathrin	79	U	ug/Kg
			Imidan	79	UJ	ug/Kg
			Ioxynil	49	U	ug/Kg
			Kresoxim-methyl	79	U	ug/Kg
			MCPA	49	U	ug/Kg
			MCPP	49	U	ug/Kg
			Metribuzin	79	UJ	ug/Kg
			Myclobutanil	79	U	ug/Kg
			Oxyfluorfen	79	U	ug/Kg
			Pendimethalin	79	U	ug/Kg
			Pentachlorophenol	49	U	ug/Kg
			Picloram	49	U	ug/Kg
			Propargite	79	U	ug/Kg
			Silvex	49	U	ug/Kg
			Simazine	79	U	ug/Kg

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			SURFLAN	160	UJ	ug/Kg
			Terbacil	79	U	ug/Kg
			Trichlorpyr	49	U	ug/Kg
			Triflumizole	79	U	ug/Kg
			Trifluralin	79	U	ug/Kg
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.1	U	ug/Kg
			17a-Hydroxyprogesterone	3.42		ug/Kg
			17alpha-trenbolone	0.1	U	ug/Kg
			17beta-estradiol	4.37		ug/Kg
			17beta-trenbolone	0.1	U	ug/Kg
			4-Androstenedione	12.4		ug/Kg
			a-Estradiol	16.9		ug/Kg
			Androstanedienedione	19.3		ug/Kg
			Androsterone	0.1	U	ug/Kg
			a-Zearalanol	0.1	U	ug/Kg
			a-Zearalenol	0.1	U	ug/Kg
			b-Zearalanol	0.1	U	ug/Kg
			b-Zearalenol	0.1	U	ug/Kg
			Epitestosterone	4.43		ug/Kg
			Estriol	0.1	U	ug/Kg
			Estrone	0.1	U	ug/Kg
			Ethynyl Estradiol	4.06		ug/Kg
			Melengesterol Acetate	0.1	U	ug/Kg
			Progesterone	48		ug/Kg
			Testosterone	0.1	U	ug/Kg
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.5	U	ug/Kg
			Erythromycin	0.5	U	ug/Kg
			Lincomycin	6.9		ug/Kg
			Monensin	437		ug/Kg
			Oxytetracycline	2.1		ug/Kg
			Ractopamine	0.5	U	ug/Kg
			Sulfachloropyridazine	0.5	U	ug/Kg
			Sulfadimethoxine	0.5	U	ug/Kg
			Sulfamerazine	0.5	U	ug/Kg
			Sulfamethazine	0.5	U	ug/Kg
			Sulfamethazole	0.5	U	ug/Kg
			Sulfamethoxazole	0.5	U	ug/Kg
			Sulfathiazole	0.5	U	ug/Kg
			Tetracyline	309		ug/Kg
			Tiamulin	0.5	U	ug/Kg
			Tylosin	0.5	U	ug/Kg
			Virginiamycin	0.5	U	ug/Kg
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	100	U	ug/Kg
			Amphetamine	50	U	ug/Kg
			Azithromycin	NR		ug/Kg
			Caffeine	50	U	ug/Kg

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			Carbamazepine	50	U	ug/Kg
			Cotinine	50	U	ug/Kg
			DEET	50	U	ug/Kg
			Diphenhydramine	50	U	ug/Kg
			Ibuprofen	50	U	ug/Kg
			Methamphetamine	50	U	ug/Kg
			Naproxen	50	U	ug/Kg
			Paraxanthine	50	U	ug/Kg
			Thiabendazole	50	U	ug/Kg
			Triclosan	50	U	ug/Kg
SO-10	10164240		Ammonium-N	7.1		mg/Kg
			Nitrate-N/Nitrite	139		mg/Kg
			Total Nitrogen/Solid	3590		mg/Kg
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	13	U	ug/Kg
			2,3,4,6-Tetrachlorophenol	13	U	ug/Kg
			2,4,5-T	13	U	ug/Kg
			2,4,5-Trichlorophenol	13	U	ug/Kg
			2,4,6-Trichlorophenol	13	UJ	ug/Kg
			2,4-D	13	U	ug/Kg
			2,4-DB	13	U	ug/Kg
			3,5-Dichlorobenzoic acid	13	U	ug/Kg
			4-Nitrophenol	670	J	ug/Kg
			Acifluorfen	13	UJ	ug/Kg
			Alachlor	19	U	ug/Kg
			Atrazine	19	U	ug/Kg
			Azinphos-methyl	19	UJ	ug/Kg
			Bentazon	13	U	ug/Kg
			Benzonitrile, 2,6-dichloro-	19	U	ug/Kg
			Bromoxynil	13	U	ug/Kg
			Chloramben	13	UJ	ug/Kg
			Chlorpyrifos, Ethyl	2.3	J	ug/Kg
			Clopyralid	13	U	ug/Kg
			DACTHAL-DCPA	1	J	ug/Kg
			Diazinon	19	U	ug/Kg
			Dicamba	13	U	ug/Kg
			Dichlorprop	13	U	ug/Kg
			Diclofop, Methyl	13	U	ug/Kg
			Dinoseb	13	UJ	ug/Kg
			Diuron	19	UJ	ug/Kg
			Endosulfan I	19	U	ug/Kg
			Endosulfan II	19	U	ug/Kg
			Endosulfan Sulfate	19	U	ug/Kg
			Fenhexamid	19	UJ	ug/Kg
			Fenpropathrin	19	U	ug/Kg
			Imidan	19	UJ	ug/Kg
			Ioxynil	13	U	ug/Kg
			Kresoxim-methyl	19	U	ug/Kg

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			MCPA	13	U	ug/Kg
			MCPP	13	U	ug/Kg
			Metribuzin	19	UJ	ug/Kg
			Myclobutanil	19	U	ug/Kg
			Oxyfluorfen	19	U	ug/Kg
			Pendimethalin	19	U	ug/Kg
			Pentachlorophenol	1.7	J	ug/Kg
			Picloram	13	U	ug/Kg
			Propargite	19	U	ug/Kg
			Silvex	13	U	ug/Kg
			Simazine	19	U	ug/Kg
			SURFLAN	39	UJ	ug/Kg
			Terbacil	19	U	ug/Kg
			Trichlorpyr	13	U	ug/Kg
			Triflumizole	19	U	ug/Kg
			Trifluralin	19	U	ug/Kg
		<i>Steroids / Hormones</i>				
			11-Keto Testosterone	0.1	U	ug/Kg
			17a-Hydroxyprogesterone	0.1	U	ug/Kg
			17alpha-trenbolone	0.1	U	ug/Kg
			17beta-estradiol	0.1	U	ug/Kg
			17beta-trenbolone	0.1	U	ug/Kg
			4-Androstenedione	0.12		ug/Kg
			a-Estradiol	0.1	U	ug/Kg
			Androstenedionedione	0.1	U	ug/Kg
			Androsterone	0.1	U	ug/Kg
			a-Zearalanol	0.1	U	ug/Kg
			a-Zearalenol	0.1	U	ug/Kg
			b-Zearalanol	0.1	U	ug/Kg
			b-Zearalenol	0.1	U	ug/Kg
			Epitestosterone	0.1	U	ug/Kg
			Estriol	0.1	U	ug/Kg
			Estrone	0.1	U	ug/Kg
			Ethinyl Estradiol	0.1	U	ug/Kg
			Melengesterol Acetate	0.1	U	ug/Kg
			Progesterone	0.23		ug/Kg
			Testosterone	0.1	U	ug/Kg
		<i>Veterinary Pharmaceuticals</i>				
			Chlortetracycline(total)	0.5	U	ug/Kg
			Erythromycin	0.5	U	ug/Kg
			Lincomycin	0.5	U	ug/Kg
			Monensin	7		ug/Kg
			Oxytetracycline	2.4		ug/Kg
			Ractopamine	0.5	U	ug/Kg
			Sulfachloropyridazine	0.5	U	ug/Kg
			Sulfadimethoxine	0.6		ug/Kg
			Sulfamerazine	0.7		ug/Kg
			Sulfamethazine	0.5	U	ug/Kg
			Sulfamethazole	0.5	U	ug/Kg

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			Sulfamethoxazole	0.5	U	ug/Kg
			Sulfathiazole	0.5	U	ug/Kg
			Tetracycline	53		ug/Kg
			Tiamulin	0.5	U	ug/Kg
			Tylosin	0.5	U	ug/Kg
			Virginiamycin	0.5	U	ug/Kg
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	100	U	ug/Kg
			Amphetamine	50	U	ug/Kg
			Azithromycin	NR		ug/Kg
			Caffeine	50	U	ug/Kg
			Carbamazepine	50	U	ug/Kg
			Cotinine	50	U	ug/Kg
			DEET	50	U	ug/Kg
			Diphenhydramine	50	U	ug/Kg
			Ibuprofen	50	U	ug/Kg
			Methamphetamine	50	U	ug/Kg
			Naproxen	50	U	ug/Kg
			Paraxanthine	50	U	ug/Kg
			Thiabendazole	50	U	ug/Kg
			Triclosan	50	U	ug/Kg
LG-13	10164263		Ammonia (NH3+NH4) as N	970	J	mg/L
			Nitrate+Nitrite as N	2.5	J	mg/L
			Total Kjeldahl Nitrogen	1700	J	mg/L
		<i>Bacteria</i>	Fecal Coliform	3300000000	J	CFU/100 ml
		<i>General Chemistry</i>	Alkalinity as CaCO3	11300		mg/L
			Bromide	10	U	mg/L
			Chloride	661		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	297		mg/L
			Sulfate	96		mg/L
		<i>Metals</i>	Arsenic	180	U	ug/L
			Barium	3160		ug/L
			Cadmium	22		ug/L
			Calcium	1210000		ug/L
			Chromium	180		ug/L
			Copper	2870		ug/L
			Iron	208000		ug/L
			Lead	100	U	ug/L
			Magnesium	707000		ug/L
			Manganese	11100		ug/L
			Mercury	0.707	J	ug/L
			Potassium	2650000		ug/L
			Selenium	200	U	ug/L
			Silver	41	U	ug/L

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			Sodium	906000		ug/L
			Zinc	8470		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	30	U	ug/L
			1-methylnaphthalene	30	UJ	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	30	U	ug/L
			2,6-dimethylnaphthalene	3.41	J	ug/L
			2-methylnaphthalene	30	UJ	ug/L
			3,4-dichlorophenyl isocyanate	30	U	ug/L
			3-beta-coprostanol	591	J	ug/L
			3-methyl-1h-indole (skatol)	1360	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	30	U	ug/L
			4-n-octylphenol	30	U	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	745	J	ug/L
			4-octylphenol diethoxylate (op2eo)	30	U	ug/L
			4-octylphenol monoethoxylate (op1eo)	30	U	ug/L
			4-tert-octylphenol	30	U	ug/L
			5-methyl-1h-benzotriazole	1.6	UJ	ug/L
			acetophenone	30	U	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	30	U	ug/L
			anthracene	30	UJ	ug/L
			anthraquinone	30	U	ug/L
			atrazine	30	U	ug/L
			benz[a]pyrene	30	UJ	ug/L
			benzophenone	30	UJ	ug/L
			beta-sitosterol	613	J	ug/L
			beta-stigmastanol	535	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	30	U	ug/L
			bisphenol a	30	U	ug/L
			bromacil	30	U	ug/L
			bromoform	30	U	ug/L
			caffeine	30	U	ug/L
			camphor	30	U	ug/L
			carbaryl	30	U	ug/L
			carbazole	30	U	ug/L
			chlorpyrifos	30	U	ug/L
			cholesterol	808	J	ug/L
			cotinine	0.8	UJ	ug/L
			diazinon	30	U	ug/L
			dichlorvos	30	U	ug/L
			diethoxynonylphenols- total (np2eo)	293	J	ug/L
			diethyl phthalate	30	U	ug/L
			d-limonene	30	U	ug/L
			fluoranthene	30	UJ	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	30	U	ug/L

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			indole	30	U	ug/L
			isoborneol	30	U	ug/L
			isophorone	2.36	J	ug/L
			isopropylbenzene (cumene)	30	U	ug/L
			isoquinoline	30	U	ug/L
			menthol	30	U	ug/L
			metalaxyl	30	U	ug/L
			methyl salicylate	30	U	ug/L
			metolachlor	30	U	ug/L
			n,n-diethyl-meta-toluamide (deet)	30	U	ug/L
			naphthalene	30	UJ	ug/L
			para-nonylphenol total	328	J	ug/L
			p-cresol	10800	J	ug/L
			pentachlorophenol	1.6	U	ug/L
			phenanthrene	30	UJ	ug/L
			phenol	4600	J	ug/L
			prometon	30	U	ug/L
			pyrene	30	UJ	ug/L
			tetrachloroethylene	30	U	ug/L
			tri(2-butoxyethyl) phosphate	30	U	ug/L
			tri(2-chloroethyl) phosphate	30	U	ug/L
			tri(dichloroisopropyl) phosphate	30	U	ug/L
			tributyl phosphate	30	U	ug/L
			triclosan	30	U	ug/L
			triethyl citrate (ethyl citrate)	30	U	ug/L
			triphenyl phosphate	30	U	ug/L

Pesticides Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.

<i>Hormones</i>	17-a-estradiol	1220		ng/L
	17-a-ethynyl-estradiol	20	U	ng/L
	17-b-estradiol	179		ng/L
	Estriol	8.8	U	ng/L
	Estrone	390		ng/L

<i>Steroids / Hormones</i>	11-Keto Testosterone	0.758		ug/L
	17a-Hydroxyprogesterone	0.002	U	ug/L
	17alpha-trenbolone	0.002	U	ug/L
	17beta-estradiol	0.002	U	ug/L
	17beta-trenbolone	0.002	U	ug/L
	4-Androstenedione	0.314		ug/L
	a-Estradiol	0.002	U	ug/L
	Androstenedienedione	0.002	U	ug/L
	Androsterone	0.002	U	ug/L
	a-Zearalanol	9.851		ug/L
	a-Zearalenol	0.002	U	ug/L

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			b-Zearalanol	0.002	U	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	0.002	U	ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.926		ug/L
			Testosterone	0.262		ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	R	ug/L
			Erythromycin	1.3	J	ug/L
			Lincomycin	3.37	J	ug/L
			Monensin	662	J	ug/L
			Oxytetracycline	0.02	R	ug/L
			Ractopamine	0.081	J	ug/L
			Sulfachloropyridazine	0.32	J	ug/L
			Sulfadimethoxine	4.13	J	ug/L
			Sulfamerazine	0.02	R	ug/L
			Sulfamethazine	0.108	J	ug/L
			Sulfamethazole	0.148	J	ug/L
			Sulfamethoxazole	0.02	R	ug/L
			Sulfathiazole	0.24	J	ug/L
			Tetracycline	10.3	J	ug/L
			Tiamulin	0.079	J	ug/L
			Tylosin	0.139	J	ug/L
			Virginiamycin	0.184	J	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.67	J	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	U	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	469		mg/L
			δ15N-NH4	4.4		‰
			δ18O-NO3	NM		‰ SMOW

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LG-14	10164264		Ammonia (NH ₃ +NH ₄) as N	860	J	mg/L
			Nitrate+Nitrite as N	1	UJ	mg/L
			Total Kjeldahl Nitrogen	1400	J	mg/L
		<i>Bacteria</i>	Fecal Coliform	2400000000		CFU/100 ml
		<i>General Chemistry</i>	Alkalinity as CaCO ₃	9490		mg/L
			Bromide	10	U	mg/L
			Chloride	558		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	239		mg/L
			Sulfate	59.6		mg/L
		<i>Metals</i>	Arsenic	150	U	ug/L
			Barium	2350		ug/L
			Cadmium	10	U	ug/L
			Calcium	1180000		ug/L
			Chromium	130		ug/L
			Copper	2090		ug/L
			Iron	152000		ug/L
			Lead	84	U	ug/L
			Magnesium	580000		ug/L
			Manganese	9810		ug/L
			Mercury	0.495	J	ug/L
			Potassium	2290000		ug/L
			Selenium	170	U	ug/L
			Silver	34	U	ug/L
			Sodium	830000		ug/L
			Zinc	8650		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	30	UJ	ug/L
			1-methylnaphthalene	30	UJ	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	30	U	ug/L
			2,6-dimethylnaphthalene	2.01	J	ug/L
			2-methylnaphthalene	30	UJ	ug/L
			3,4-dichlorophenyl isocyanate	30	U	ug/L
			3-beta-coprostanol	356	J	ug/L
			3-methyl-1h-indole (skatol)	1170	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	30	U	ug/L
			4-n-octylphenol	30	U	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	559	J	ug/L
			4-octylphenol diethoxylate (op2eo)	30	U	ug/L
			4-octylphenol monoethoxylate (op1eo)	30	U	ug/L
			4-tert-octylphenol	30	U	ug/L
			5-methyl-1h-benzotriazole	2	UJ	ug/L
			acetophenone	30	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	30	U	ug/L
			anthracene	30	UJ	ug/L
			anthraquinone	30	U	ug/L
			atrazine	30	U	ug/L
			benz[a]pyrene	30	UJ	ug/L
			benzophenone	30	UJ	ug/L
			beta-sitosterol	312	J	ug/L
			beta-stigmastanol	260	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	30	U	ug/L
			bisphenol a	30	U	ug/L
			bromacil	30	U	ug/L
			bromoforn	30	U	ug/L
			caffeine	30	U	ug/L
			camphor	30	U	ug/L
			carbaryl	30	U	ug/L
			carbazole	30	U	ug/L
			chlorpyrifos	30	U	ug/L
			cholesterol	406	J	ug/L
			cotinine	2	UJ	ug/L
			diazinon	30	U	ug/L
			dichlorvos	30	U	ug/L
			diethoxynonylphenols- total (np2eo)	247	J	ug/L
			diethyl phthalate	30	U	ug/L
			d-limonene	0.892	J	ug/L
			fluoranthene	30	UJ	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	30	U	ug/L
			indole	30	U	ug/L
			isoborneol	30	U	ug/L
			isophorone	2.12	J	ug/L
			isopropylbenzene (cumene)	30	U	ug/L
			isoquinoline	30	U	ug/L
			menthol	30	U	ug/L
			metalaxyl	30	U	ug/L
			methyl salicylate	30	U	ug/L
			metolachlor	30	U	ug/L
			n,n-diethyl-meta-toluamide (deet)	30	U	ug/L
			naphthalene	30	UJ	ug/L
			para-nonylphenol total	233	J	ug/L
			p-cresol	8970	J	ug/L
			pentachlorophenol	30	U	ug/L
			phenanthrene	30	UJ	ug/L
			phenol	2760	J	ug/L
			prometon	30	U	ug/L
			pyrene	30	UJ	ug/L
			tetrachloroethylene	30	U	ug/L
			tri(2-butoxyethyl) phosphate	30	U	ug/L
			tri(2-chloroethyl) phosphate	30	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			tri(dichloroisopropyl) phosphate	30	U	ug/L
			tributyl phosphate	30	U	ug/L
			triclosan	30	U	ug/L
			triethyl citrate (ethyl citrate)	30	U	ug/L
			triphenyl phosphate	30	U	ug/L
		<i>Pesticides</i>	Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.			
		<i>Hormones</i>	17-a-estradiol	1050		ng/L
			17-a-ethynyl-estradiol	20	U	ng/L
			17-b-estradiol	41		ng/L
			Estriol	8.8	U	ng/L
			Estrone	419		ng/L
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.002	U	ug/L
			17a-Hydroxyprogesterone	0.002	U	ug/L
			17alpha-trenbolone	0.002	U	ug/L
			17beta-estradiol	0.002	U	ug/L
			17beta-trenbolone	0.002	U	ug/L
			4-Androstenedione	0.31		ug/L
			a-Estradiol	0.002	U	ug/L
			Androstenedione	0.002	U	ug/L
			Androsterone	0.002	U	ug/L
			a-Zearalanol	8.83		ug/L
			a-Zearalenol	0.002	U	ug/L
			b-Zearalanol	0.002	U	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	0.002	U	ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.039		ug/L
			Progesterone	0.682		ug/L
			Testosterone	0.17		ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	R	ug/L
			Erythromycin	0.02	R	ug/L
			Lincomycin	2.04	J	ug/L
			Monensin	498	J	ug/L
			Oxytetracycline	0.02	R	ug/L
			Ractopamine	0.056	J	ug/L
			Sulfachloropyridazine	0.16	J	ug/L
			Sulfadimethoxine	3.65	J	ug/L
			Sulfamerazine	0.02	R	ug/L
			Sulfamethazine	0.139	J	ug/L
			Sulfamethazole	0.02	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Sulfamethoxazole	0.02	R	ug/L
			Sulfathiazole	0.061	J	ug/L
			Tetracycline	8.6	J	ug/L
			Tiamulin	0.02	R	ug/L
			Tylosin	0.02	R	ug/L
			Virginiamycin	0.02	R	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.78	J	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	1.8	J	ug/L
			Triclosan	0.2	U	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	600		mg/L
			δ15N-NH4	3.26		‰
			δ18O-NO3	NM		‰ SMOW
LG-15	10164265		Ammonia (NH3+NH4) as N	560	J	mg/L
			Nitrate+Nitrite as N	1	UJ	mg/L
			Total Kjeldahl Nitrogen	900	J	mg/L
		<i>Bacteria</i>	Fecal Coliform	5410000		CFU/100 ml
		<i>General Chemistry</i>	Alkalinity as CaCO3	5640		mg/L
			Bromide	10	U	mg/L
			Chloride	524		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	74		mg/L
			Sulfate	15	U	mg/L
		<i>Metals</i>	Arsenic	160	U	ug/L
			Barium	803		ug/L
			Cadmium	11	U	ug/L
			Calcium	387000		ug/L
			Chromium	36	U	ug/L
			Copper	743		ug/L
			Iron	20300		ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Lead	91	U	ug/L
			Magnesium	294000		ug/L
			Manganese	2410		ug/L
			Mercury	0.25	UJ	ug/L
			Potassium	1830000		ug/L
			Selenium	180	U	ug/L
			Silver	36	U	ug/L
			Sodium	687000		ug/L
			Zinc	2920		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	2	UJ	ug/L
			1-methylnaphthalene	2	R	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	2	UJ	ug/L
			2,6-dimethylnaphthalene	2	R	ug/L
			2-methylnaphthalene	2	R	ug/L
			3,4-dichlorophenyl isocyanate	2	UJ	ug/L
			3-beta-coprostanol	46.8	J	ug/L
			3-methyl-1h-indole (skatol)	330	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	2	UJ	ug/L
			4-n-octylphenol	2	UJ	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	166	J	ug/L
			4-octylphenol diethoxylate (op2eo)	2	UJ	ug/L
			4-octylphenol monoethoxylate (op1eo)	2	UJ	ug/L
			4-tert-octylphenol	2	UJ	ug/L
			5-methyl-1h-benzotriazole	2	UJ	ug/L
			acetophenone	2	UJ	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	2	UJ	ug/L
			anthracene	2	R	ug/L
			anthraquinone	2	UJ	ug/L
			atrazine	2	UJ	ug/L
			benz[a]pyrene	2	R	ug/L
			benzophenone	2	R	ug/L
			beta-sitosterol	77.6	J	ug/L
			beta-stigmastanol	45.3	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	2	UJ	ug/L
			bisphenol a	2	UJ	ug/L
			bromacil	2	UJ	ug/L
			bromoform	2	UJ	ug/L
			caffeine	2	UJ	ug/L
			camphor	2	UJ	ug/L
			carbaryl	2	UJ	ug/L
			carbazole	2	UJ	ug/L
			chlorpyrifos	2	UJ	ug/L
			cholesterol	114	J	ug/L
			cotinine	2	UJ	ug/L
			diazinon	2	UJ	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			dichlorvos	2	UJ	ug/L
			diethoxynonylphenols- total (np2eo)	55.3	J	ug/L
			diethyl phthalate	2	UJ	ug/L
			d-limonene	2	UJ	ug/L
			fluoranthene	2	R	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	2	UJ	ug/L
			indole	6.68	J	ug/L
			isoborneol	2	UJ	ug/L
			isophorone	1.26	J	ug/L
			isopropylbenzene (cumene)	2	UJ	ug/L
			isoquinoline	2	UJ	ug/L
			menthol	2	UJ	ug/L
			metalaxyl	2	UJ	ug/L
			methyl salicylate	2	UJ	ug/L
			metolachlor	2	UJ	ug/L
			n,n-diethyl-meta-toluamide (deet)	2	UJ	ug/L
			naphthalene	2	R	ug/L
			para-nonylphenol total	129	J	ug/L
			p-cresol	935	J	ug/L
			pentachlorophenol	2	UJ	ug/L
			phenanthrene	2	R	ug/L
			phenol	1780	J	ug/L
			prometon	2	UJ	ug/L
			pyrene	2	R	ug/L
			tetrachloroethylene	2	UJ	ug/L
			tri(2-butoxyethyl) phosphate	2	UJ	ug/L
			tri(2-chloroethyl) phosphate	2	UJ	ug/L
			tri(dichloroisopropyl) phosphate	2	UJ	ug/L
			tributyl phosphate	2	UJ	ug/L
			triclosan	2	UJ	ug/L
			triethyl citrate (ethyl citrate)	2	UJ	ug/L
			triphenyl phosphate	2	UJ	ug/L

Pesticides Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.

<i>Hormones</i>	17-a-estradiol	792		ng/L
	17-a-ethynyl-estradiol	20	U	ng/L
	17-b-estradiol	25.3		ng/L
	Estriol	8.8	U	ng/L
	Estrone	830		ng/L

<i>Steroids / Hormones</i>	11-Keto Testosterone	0.002	U	ug/L
	17a-Hydroxyprogesterone	0.002	U	ug/L
	17alpha-trenbolone	0.002	U	ug/L
	17beta-estradiol	0.002	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			17beta-trenbolone	0.002	U	ug/L
			4-Androstenedione	0.002	U	ug/L
			a-Estradiol	0.002	U	ug/L
			Androstenedione	0.002	U	ug/L
			Androsterone	0.002	U	ug/L
			a-Zearalanol	4.977		ug/L
			a-Zearalenol	0.002	U	ug/L
			b-Zearalanol	0.002	U	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	0.002	U	ug/L
			Ethinyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.002	U	ug/L
			Testosterone	0.002	U	ug/L
<i>Veterinary Pharmaceuticals</i>			Chlortetracycline(total)	0.02	R	ug/L
			Erythromycin	4.35	J	ug/L
			Lincomycin	1.71	J	ug/L
			Monensin	426	J	ug/L
			Oxytetracycline	0.02	R	ug/L
			Ractopamine	0.06	J	ug/L
			Sulfachloropyridazine	0.658	J	ug/L
			Sulfadimethoxine	2.98	J	ug/L
			Sulfamerazine	0.028	J	ug/L
			Sulfamethazine	0.601	J	ug/L
			Sulfamethazole	1.27	J	ug/L
			Sulfamethoxazole	0.037	J	ug/L
			Sulfathiazole	0.135	J	ug/L
			Tetracyline	7.55	J	ug/L
			Tiamulin	0.132	J	ug/L
			Tylosin	0.02	R	ug/L
			Virginiamycin	1	J	ug/L
<i>Wastewater Pharmaceuticals</i>			Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.45	J	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	658		mg/L
			δ15N-NH4	13.85		‰
			δ18O-NO3	NM		‰ SMOW
WW-10	10164210		Ammonia (NH3+NH4) as N	0.05	U	mg/L
			Nitrate - Field Test	0		mg/L
			Nitrate+Nitrite as N	0.05	U	mg/L
			Nitrate-N	0.05	U	mg/L
			Total Kjeldahl Nitrogen	0.5	U	mg/L
		<i>Bacteria</i>	E.Coli MPN Quanti-Tray	<1		MPN/100ml
			Fecal Coliform	0		CFU/100 ml
			Total Coliform QuantiTray	<1		MPN/100ml
		<i>General Chemistry</i>	Alkalinity as CaCO3	141		mg/L
			Bromide	0.2	U	mg/L
			Chloride	4.44		mg/L
			Fluoride	0.328		mg/L
			Phosphorus, total	0.0477		mg/L
			Sulfate	21.7		mg/L
		<i>Metals</i>	Arsenic	45	U	ug/L
			Barium	63.8		ug/L
			Cadmium	3	U	ug/L
			Calcium	27000		ug/L
			Chromium	10	U	ug/L
			Copper	5	U	ug/L
			Iron	550		ug/L
			Lead	25	U	ug/L
			Magnesium	8410		ug/L
			Manganese	89.9		ug/L
			Mercury	0.05	U	ug/L
			Potassium	5250		ug/L
			Selenium	50	U	ug/L
			Silver	10	U	ug/L
			Sodium	25500		ug/L
		Zinc	8.3		ug/L	
		<i>Perchlorate</i>	Perchlorate	3	U	ng/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	0.2	U	ug/L
			1-methylnaphthalene	0.2	U	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	0.3	U	ug/L
			2,6-dimethylnaphthalene	0.2	U	ug/L
			2-methylnaphthalene	0.2	U	ug/L
			3,4-dichlorophenyl isocyanate	1.6	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			3-beta-coprostanol	1.6	U	ug/L
			3-methyl-1h-indole (skatol)	0.2	U	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	0.2	UJ	ug/L
			4-cumylphenol	0.2	U	ug/L
			4-n-octylphenol	0.2	U	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	1.6	U	ug/L
			4-octylphenol diethoxylate (op2eo)	0.5	UJ	ug/L
			4-octylphenol monoethoxylate (op1eo)	1	U	ug/L
			4-tert-octylphenol	0.4	U	ug/L
			5-methyl-1h-benzotriazole	1.6	UJ	ug/L
			acetophenone	0.4	U	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	0.2	U	ug/L
			anthracene	0.2	U	ug/L
			anthraquinone	0.2	U	ug/L
			atrazine	0.2	U	ug/L
			benz[a]pyrene	0.2	U	ug/L
			benzophenone	0.2	U	ug/L
			beta-sitosterol	1.6	U	ug/L
			beta-stigmastanol	1.7	U	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	2	U	ug/L
			bisphenol a	0.4	U	ug/L
			bromacil	0.8	U	ug/L
			bromoform	0.2	U	ug/L
			caffeine	0.2	R	ug/L
			camphor	0.2	U	ug/L
			carbaryl	0.2	U	ug/L
			carbazole	0.2	U	ug/L
			chlorpyrifos	0.2	U	ug/L
			cholesterol	1.6	U	ug/L
			cotinine	0.8	UJ	ug/L
			diazinon	0.2	U	ug/L
			dichlorvos	0.2	U	ug/L
			diethoxynonylphenols- total (np2eo)	3.2	U	ug/L
			diethyl phthalate	0.2	U	ug/L
			d-limonene	0.2	U	ug/L
			fluoranthene	0.2	U	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	0.2	U	ug/L
			indole	0.2	U	ug/L
			isoborneol	0.2	U	ug/L
			isophorone	0.2	U	ug/L
			isopropylbenzene (cumene)	0.2	U	ug/L
			isoquinoline	0.2	U	ug/L
			menthol	0.2	U	ug/L
			metalaxyl	0.2	U	ug/L
			methyl salicylate	0.2	U	ug/L
			metolachlor	0.2	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			n,n-diethyl-meta-toluamide (deet)	0.2	U	ug/L
			naphthalene	0.2	U	ug/L
			para-nonylphenol total	1.6	U	ug/L
			p-cresol	0.2	U	ug/L
			pentachlorophenol	1.6	U	ug/L
			phenanthrene	0.2	U	ug/L
			phenol	0.2	U	ug/L
			prometon	0.2	U	ug/L
			pyrene	0.2	U	ug/L
			tetrachloroethylene	0.4	U	ug/L
			tri(2-butoxyethyl) phosphate	0.2	U	ug/L
			tri(2-chloroethyl) phosphate	0.2	U	ug/L
			tri(dichloroisopropyl) phosphate	0.2	U	ug/L
			tributyl phosphate	0.2	U	ug/L
			triclosan	0.2	U	ug/L
			triethyl citrate (ethyl citrate)	0.2	U	ug/L
			triphenyl phosphate	0.2	U	ug/L
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	0.19	U	ug/L
			2,3,4,6-Tetrachlorophenol	0.096	U	ug/L
			2,4,5-T	0.48	U	ug/L
			2,4,5-Trichlorophenol	0.19	U	ug/L
			2,4,6-Trichlorophenol	0.48	UJ	ug/L
			2,4-D	0.48	UJ	ug/L
			2,4-DB	0.096	U	ug/L
			3,5-Dichlorobenzoic acid	0.096	U	ug/L
			4-Nitrophenol	0.48	UJ	ug/L
			Acifluorfen	0.48	U	ug/L
			Alachlor	0.1	UJ	ug/L
			Atrazine	0.1	UJ	ug/L
			Azinphos-methyl	0.1	UJ	ug/L
			Bentazon	0.096	U	ug/L
			Benzonitrile, 2,6-dichloro-	0.1	UJ	ug/L
			Bromoxynil	0.096	U	ug/L
			Chloramben	0.19	UJ	ug/L
			Chlorpyrifos, Ethyl	0.1	UJ	ug/L
			Clopyralid	0.96	UJ	ug/L
			DACTHAL-DCPA	0.48	UJ	ug/L
			Diazinon	0.1	UJ	ug/L
			Dicamba	0.096	UJ	ug/L
			Dichlorprop	0.48	U	ug/L
			Diclofop, Methyl	0.096	U	ug/L
			Dinoseb	0.48	U	ug/L
			Diuron	0.1	UJ	ug/L
			Endosulfan I	0.1	UJ	ug/L
			Endosulfan II	0.1	UJ	ug/L
			Endosulfan Sulfate	0.1	UJ	ug/L
			Fenhexamid	0.96	UJ	ug/L
			Fenprothrin	0.1	UJ	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Imidan	0.19	UJ	ug/L
			Ioxynil	0.096	U	ug/L
			Kresoxim-methyl	0.1	UJ	ug/L
			MCPA	0.19	U	ug/L
			MCPP	0.096	U	ug/L
			Metribuzin	0.1	UJ	ug/L
			Myclobutanil	0.1	UJ	ug/L
			Oxyfluorfen	0.1	UJ	ug/L
			Pendimethalin	0.1	UJ	ug/L
			Pentachlorophenol	0.096	U	ug/L
			Picloram	0.96	UJ	ug/L
			Propargite	0.1	UJ	ug/L
			Silvex	0.19	U	ug/L
			Simazine	0.1	U	ug/L
			SURFLAN	1.9	UJ	ug/L
			Terbacil	1.9	UJ	ug/L
			Trichlorpyr	0.096	U	ug/L
			Triflumizole	0.39	UJ	ug/L
			Trifluralin	0.1	UJ	ug/L
		<i>Hormones</i>	17-a-estradiol	0.21	U	ng/L
			17-a-ethynyl-estradiol	0.16	U	ng/L
			17-b-estradiol	0.14	U	ng/L
			Estriol	0.22	U	ng/L
			Estrone	0.21	U	ng/L
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.002	U	ug/L
			17a-Hydroxyprogesterone	0.002	U	ug/L
			17alpha-trenbolone	0.002	U	ug/L
			17beta-estradiol	0.002	U	ug/L
			17beta-trenbolone	0.002	U	ug/L
			4-Androstenedione	0.002	U	ug/L
			a-Estradiol	0.002	U	ug/L
			Androstenedionedione	0.002	UJ	ug/L
			Androsterone	0.002	UJ	ug/L
			a-Zearalanol	0.002	UJ	ug/L
			a-Zearalenol	0.002	UJ	ug/L
			b-Zearalanol	0.002	UJ	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	0.002	UJ	ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.002	UJ	ug/L
			Testosterone	0.002	U	ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	U	ug/L
			Erythromycin	0.02	U	ug/L

Henry Bosma and Liberty Dairy

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Lincomycin	0.02	U	ug/L
			Monensin	0.499		ug/L
			Oxytetracycline	0.02	U	ug/L
			Ractopamine	0.02	U	ug/L
			Sulfachloropyridazine	0.02	U	ug/L
			Sulfadimethoxine	0.02	U	ug/L
			Sulfamerazine	0.02	U	ug/L
			Sulfamethazine	0.02	U	ug/L
			Sulfamethazole	0.02	U	ug/L
			Sulfamethoxazole	0.02	U	ug/L
			Sulfathiazole	0.02	U	ug/L
			Tetracycline	0.02	U	ug/L
			Tiamulin	0.02	U	ug/L
			Tylosin	0.02	U	ug/L
			Virginiamycin	0.02	U	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	UJ	ug/L
			Amphetamine	0.2	UJ	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.67		ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	UJ	ug/L
			Methamphetamine	0.2	U	ug/L
			Naproxen	0.2	R	ug/L
			Paraxanthine	0.2	UJ	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	R	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			$\delta^{15}\text{N-NO}_3$	NM		‰
			Ammonia	<0.1		mg/L
			$\delta^{15}\text{N-NH}_4$	NM		‰
			$\delta^{18}\text{O-NO}_3$	NM		‰ SMOW
		<i>Age Dating</i>	Piston Flow Model SF6 Recharge Age	44.3 - 44.8	J	years

Abbreviations

BAC32 - *Bacteroides*

ND - Analysis not done

NM - Not measured

PCR - Polymerase Chain Reaction

‰ = parts per thousand difference from the atmospheric standard

SMOW = standard mean of ocean water

TNTC - Too numerous to count

Units

Henry Bosma and Liberty Dairy

Revised February 2012

Station	Sample	Analysis						
Location	Number	Type	Analyte	Result	Qualifier	Units		
			CFU/100 ml = colony forming unit per 100 milliliters					
			MPN/100 ml = most probable number per 100 milliliters					
			ng/L = nanograms per liter					
			ug/L = micrograms per liter					
			mg/L = milligrams per liter					
			mg/Kg = milligrams per kilogram					
			ug/Kg = micrograms per kilogram					