Process Code	Process Description	Sample Commodity	Sample Location Description	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose
H1	Headworks Facility: Raw Sewage Pumping	Raw Influent	Downstream of the screens. The sample will include Raw Sewage and Hauled Liquid Waste.	On-line Instrument	Easy access for calibration and maintenance.	Conductivity	Continuous	Source Control
						pH	Continuous	Source Control
						Temperature	Continuous	Monitoring
				On-line Instrument	Easy access for calibration and maintenance.	TOC	Continuous	Source Control
				Composite Sampler	Automatic, plunger sampler mounted in mid section of pressurized pipe with carboy in refrigerator for sample storage. Programed to collect flow-weighted samples. Ensure that all automatic samplers are designed to meet the area classification. See Section 11850 of the Appendix 18B - Specifications for additional sampler requirements.	Alkalinity	Daily	Process Control
						Ammonia	Daily	Process Control
						TN	Daily	Process Control
						TN - Soluble	2/Week	Monitoring
						TP	Daily	Process Control
						Ortho P	Daily	Process Control
						VFA Total	2/Week	Process Control
						BOD - Total	Daily	Process Control
						BOD - Soluble	Daily	Process Control
						Chlorides	2/Week	Monitoring
						COD - Total	Daily	Process Control
						Conductivity	Daily	Process Control
						Nitrite & Nitrate	Daily	Process Control
						pH	Daily	Monitoring
						Surfactant	Monthly	Monitoring
						TSS	Daily	Process Control
						VSS	Daily	Process Control
				Composite Sampler	Manually combined sample from daily composite samples.	Metals - Total	Weekly	Monitoring
						Metals - Dissolved	Weekly	Monitoring
				Extendable Pole	Easy access for sampling.	Conductivity	As required	On-line instrument Check
						pH	As required	On-line instrument Check
						Temperature	As required	On-line instrument Check
						TOC	As required	On-line instrument Check
						List of parameters in Schedule A of Environmental Act License ####	Quarterly	Regulatory
						Oil & Grease	Monthly	Monitoring
H2	Headworks Facility: Raw Sewage Overflow	Unscreened Raw Influent	Raw Sewage Overflow to Outfall	Extendable Pole	Easy access for sampling	As required by Governmental Authority	When Overflow in use	Regulatory
H3	Headworks Facility: Fine Screening	Screening	Washed and Dewatered Screenings to Disposal	By Hand	Easy access for sampling.	TS	2/Week	Process Control and Process Performance Guarantee
H4	Headworks Facility: Screen Effluent Overflow	Screen Effluent	Screen Effluent Overflow to Outfall	Extendable Pole	Easy access for sampling	As required by Governmental Authority	When Overflow in use	Regulatory
H5	Headworks Facility: Grit Removal	Grit Removal	Washed and Dewatered Grit to Disposal	By Hand	Easy access for sampling.	TS	2/Week	Process Control and Process Performance Guarantee
						VS	2/Week	Process Control and Process Performance Guarantee
H6	Headworks Facility: Grit Effluent Overflow	Grit Effluent	Grit Effluent Overflow to Outfall	Extendable Pole	Easy access for sampling	As required by Governmental Authority	When Overflow in use	Regulatory
H7	Headworks Facility: Odour Control	Foul Air	Odour Control System Influent	Sample Port	Easy access for sampling	Odour Units	Monthly	Process Control
						H2S	Weekly	Process Control
						Total Reduced Sulphur Compounds	Weekly	Process Control
			Odour Control System Effluent	Sample Port	Easy access for sampling	Odour Units	As per Appendix 18K - Special Studies and Mod	Process Control
						H2S	Weekly	Process Control
						Total Reduced Sulphur Compounds	Weekly	Process Control

Process Code	Process Description	Sample Commodity	Sample Location Description	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose
P1	Primary Clarification Facility: Primary Influent Flow Distribution	Primary Influent	Downstream of Centrate return and upstream of Primary Clarifiers. Includes screened, de-gritted influent and all return streams.	Composite Sampler	Automatic, plunger sampler mounted in mid section of pressurized pipe with carboy in refrigerator for sample storage. Programed to collect flow-weighted samples. Ensure that all automatic samplers are designed to meet the area classification. See Section 11850 of the Appendix 18B - Specifications for additional sampler requirements.	pH	Daily	Monitoring
						TSS	Daily	Removal Efficiencies
						VSS	Daily	Removal Efficiencies
						TN	Daily	Process Control
						Nitrite & Nitrate	Daily	Process Control
						Ammonia	Daily	Process Control
						TP	Daily	Process Control
						Ortho P	Daily	Process Control
						VFA Total	Daily	Process Control
						COD - Total	Daily	Removal Efficiencies
						BOD - Total	Daily	Removal Efficiencies
C1	Centrate Treatment Facility: Centrate Equalization	Treated Centrate	Supernatant from Centrate Treatment SBR.	Composite Sampler	Automatic, plunger sampler mounted in mid section of pressurized pipe with carboy in refrigerator for sample storage. Programed to collect flow-weighted samples. Provide means to minimize impact of biofilm growth on quality of samples. Ensure that all automatic samplers are designed to meet the area classification. See Section 11850 of the Technical Specifications for product information.	Alkalinity	Daily	Process Control
						pH	Daily	Process Control
						Ammonia	Daily	Process Control
						Nitrite	Daily	Process Control
						Nitrate	Daily	Process Control
						TN	Daily	Process Control
						TN - Soluble	Monthly	Process Control
						Ortho P	Daily	Process Control
						TP	Daily	Process Control
						TSS	Daily	Process Control
						VSS	Daily	Process Control
						BOD - Carbonaceous	Weekly	Process Control
						BOD - Soluble Carbonaceous	Monthly	Process Control
						COD - Total	Daily	Process Control
						COD - Soluble	Daily	Process Control
						SOUR	As required	Process Control

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
H1	Headworks Facility: Raw Sewage Pumping	Raw Influent	Downstream of the screens. The	Continuous	On-line Instrument	Easy access for calibration and maintenance.	Conductivity	Continuous	Source Control	Conductivity		0	0	0 x	0
							pH	Continuous	Source Control	pH		0	0	0 x	0
							Temperature	Continuous	Monitoring	Temperature		0	0	0 x	0
					On-line analyzer	Easy access for calibration and maintenance.	TOC	Continuous	Source Control	TOC		0	0	0 x	0
				Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF		1 x	1
							Ammonia	Daily	Process Control	AmmFilt	D		0	1 x	1
							TN	Daily	Process Control	Total Nitrogen	D		0	1 x	1
							TN - Soluble	2/Week	Monitoring	Total Nitrogen, filt	2W		0	1 x	1
							TP	Daily	Process Control	Phosphorus, total	D		0	1 x	1
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	1 x	1
							VFA Total	2/Week	Process Control	UVtransm254unFilt	2W		0	1 x	1
							BOD - Total	Daily	Process Control	BOD5	D		0	1 x	1
							BOD - Soluble	Daily	Process Control	BOD5filt	D		0	1 x	1
							Chlorides	2/Week	Monitoring	Chlorine, total	2W		0	1 x	1
							COD - Total	Daily	Process Control	COD	D		0	1 x	1
							Conductivity	Daily	Process Control	Conductivity	D		0	1 x	1
							Nitrite & Nitrate	Daily	Process Control	NOxfilt	D		0	1 x	1
							pH	Daily	Monitoring	pH	D		0	1 x	1
							Surfactant	Monthly	Monitoring	Surfactant	M		0	1 x	1
							TSS	Daily	Process Control	TSSwv	D		0	1 x	1
							VSS	Daily	Process Control	TVSS	D		0	1 x	1
				Composite - Weekly	Manually combined	Manually combined sample from daily composite samples.	Metals - Total	Weekly	Monitoring	Aluminum, total	W	WC-C		1 x	1
							Metals - Dissolved	Weekly	Monitoring	Aluminum, filt	W		0	1 x	1
				Grab	Extendable Pole	Easy access for sampling.	Conductivity	As required	On-line instrument Check	Conductivity	AR	G		0 x	0
							pH	As required	On-line instrument Check	pH	AR		0	0 x	0
							Temperature	As required	On-line instrument Check	Temperature	AR		0	0 x	0
							TOC	As required	On-line instrument Check	TOC	AR		0	7 x	7
							Comprehensive Test List*	Quarterly	Regulatory	Schedule A	Q		0	7 x	7
							Oil & Grease	Monthly	Monitoring	Fat, Oils and Grease	M		0	7 x	7
H2	Headworks Facility: Fine Screening	Screening	Washed and Dewatered Screenings	Grab	Directly by Hand	Easy access for sampling.	TS	2/Week	Removal Efficiencies	TSwv	2W	G			79	79
							VS	2/Week	Removal Efficiencies	TVS	2W		0	x	79
H3	Headworks Facility: Grit Removal	Grit Removal	Washed and Dewatered Grit to	Grab	Directly by Hand	Easy access for sampling.	TS	2/Week	Removal Efficiencies	TSwv	2W	G			80	80
							VS	2/Week	Removal Efficiencies	TVS	2W		0	x	80
P1	Primary Clarification Facility: Primary Influent Flow Distribution	Primary Influent	Downstream of Centrate return	Composite - Daily	Automatic Sampler	Automatic, plunger sampler mounted in mid	pH	Daily	Monitoring	pH	D	24CF			81	81
							TSS	Daily	Removal Efficiencies	TSSwv	D		0	x	81
							VSS	Daily	Removal Efficiencies	TVSS	D		0	x	81
							TN	Daily	Process Control	Total Nitrogen	D		0	x	81
							Nitrite & Nitrate	Daily		NOxfilt	D		0	x	81
							Ammonia	Daily	Process Control	AmmFilt	D		0	x	81
							TP	Daily	Process Control	Phosphorus, total	D		0	x	81
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	x	81
							VFA Total	Daily	Process Control	UVtransm254unFilt	D		0	x	81
							COD - Total	Daily	Removal Efficiencies	COD	D		0	x	81
							BOD - Total	Daily	Removal Efficiencies	BOD5	D		0	x	81
P1	Primary Clarification Facility: Primary Influent Flow Distribution	Primary Influent	Influent to each of Primary	Grab	Extendable Pole	Easy access for sampling.	COD - Total	As required	Removal Efficiencies	COD	AR	G			82	82
							BOD - Total	As required	Removal Efficiencies	BOD5	AR		0	x	82
							TSS	As required	Removal Efficiencies	TSSwv	AR		0	x	82
							VSS	As required	Removal Efficiencies	TVSS	AR		0	x	82
							VFA Total	As required	Removal Efficiencies	UVtransm254unFilt	AR		0	x	82
							TP	As required	Removal Efficiencies	Phosphorus, total	AR		0	x	82
							Ortho P	As required	Removal Efficiencies	Phosphorus, filt	AR		0	x	82
P2	Primary Clarification Facility: Primary Clarification	Primary Effluent	Effluent from each of Primary Clarifiers	Grab	Extendable Pole	Easy access for sampling.	COD - Total	As required	Removal Efficiencies	COD	AR	G			83	83
							BOD - Total	As required	Removal Efficiencies	BOD5	AR		0	x	83
							TSS	As required	Removal Efficiencies	TSSwv	AR		0	x	83
							VSS	As required	Removal Efficiencies	TVSS	AR		0	x	83
							VFA Total	As required	Removal Efficiencies	UVtransm254unFilt	AR		0	x	83
							TP	As required	Removal Efficiencies	Phosphorus, total	AR		0	x	83
							Ortho P	As required	Removal Efficiencies	Phosphorus, filt	AR		0	x	83

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number			Column number incl new sampling points
R2	Biological Nutrient Removal Facility: Biological Treatment	Secondary Influent	Primary Effluent Distribution	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF			84	84
							Ammonia	Daily	Process Control	AmmFilt	D		0	x		84
							TN	Daily	Process Control	Total Nitrogen	D		0	x		84
							TN - Soluble	2/Week	Monitoring	Total Nitrogen, filt	2W		0	x		84
							TP	Daily	Process Control	Phosphorus, total	D		0	x		84
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	x		84
							VFA Total	2/Week	Process Control	UVtransm254unFilt	2W		0	x		84
							VFA-Acetic	Monthly		VFA-Acetic	M		0	x		84
							VFA-Proprionic	Monthly	Monitoring	VFA-Total	M		0	x		84
							BOD - Carbonaceous	Daily	Process Control/Removal Efficiencies	CBOD5	D		0	x		84
							BOD - Soluble Carbonaceous	2/Week	Process Control	CBOD5filt	2W		0	x		84
							COD - Total	Daily	Process Control/Removal Efficiencies	COD	D		0	x		84
							Conductivity	Daily	Process Control	Conductivity	D		0	x		84
							Nitrite & Nitrate	Daily	Process Control	NOxfilt	D		0	x		84
							pH	Daily	Monitoring	pH	D		0	x		84
							COD - Soluble	Daily	Process Control	CODfilt	D		0	x		84
							TSS	Daily	Process Control/Removal Efficiencies	TSSwv	D		0	x		84
							VSS	Daily	Process Control/Removal Efficiencies	TVSS	D		0	x		84
P3	Primary Clarification Facility: Primary Sludge Pumping	Primary Sludge	Primary Sludge to Primary Sludge	Continuous	On-line Instrument		Density	Continuous	Process Control	Density		0	0	0 x		0
				Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control	TSwv	D	G		37 x		37
							VS	Daily	Process Control	TVS	D		0	37 x		37
							TN	As required	Monitoring	Total Nitrogen	AR		0	37 x		37
							TP	As required	Monitoring	Phosphorus, total	AR		0	37 x		37
							VFA Total	2/Week	Monitoring	UVtransm254unFilt	2W		0	37 x		37
H4	Headworks Facility: Wet Weather Treatment	Wet Weather Treatment	Wet Weather Treatment Influent	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	TSS	As required	Removal Efficiencies	TSSwv	AR	24CF			85	85
							VSS	As required	Removal Efficiencies	TVSS	AR		0	x		85
							COD - Total	As required	Removal Efficiencies	COD	AR		0	x		85
							BOD - Total	As required	Removal Efficiencies	BOD5	AR		0	x		85
							TN	As required	Removal Efficiencies	Total Nitrogen	AR		0	x		85
							Ammonia	As required	Removal Efficiencies	AmmFilt	AR		0	x		85
							TP	As required	Removal Efficiencies	Phosphorus, total	AR		0	x		85
H4	Headworks Facility: Wet Weather Treatment	Wet Weather Treatment	Wet Weather Treatment Effluent	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	TSS	As required	Removal Efficiencies	TSSwv	AR	24CF			86	86
							VSS	As required	Removal Efficiencies	TVSS	AR		0	x		86
							COD - Total	As required	Removal Efficiencies	COD	AR		0	x		86
							BOD - Total	As required	Removal Efficiencies	BOD5	AR		0	x		86
							TN	As required	Removal Efficiencies	Total Nitrogen	AR		0	x		86
							Ammonia	As required	Removal Efficiencies	AmmFilt	AR		0	x		86
							TP	As required	Removal Efficiencies	Phosphorus, total	AR		0	x		86
H4	Headworks Facility: Wet Weather Treatment	Polymer solution	Polymer solution ready for dosing. Each polymer make-up station.	Grab	Sampling port	Easy access for sampling.	TS	As required	Product Check	TSwv	AR	G			87	87
H4	Headworks Facility: Wet Weather Treatment	Coagulant (e.g. Ferric)	Storage of coagulant.	Grab	Sampling port	Easy access for sampling.	QC Check	As required	Product Check		0 AR	G		0 x		0
Q1	Wet Weather Sludge Storage Facility: HRS Storage	Wet Weather Treatment Sludge	Wet Weather Treatment Sludge pipe	Grab	Sample Station	Easy access for sampling. Potable water and sink provided for flushing of sampling lines.	TS	As required	Process Control	TSwv	AR	G			88	88
							VS	As required	Process Control	TVS	AR		0	x		88
				Continuous	On-line Instrument		Density	Continuous	Monitoring	Density		0	0	0 x		0
R2	Biological Nutrient Removal Facility: Biological Treatment	Mixed Liquor	All unaerated zones of each bioreactor	Continuous	On-line Instrument	Easy access for calibration and maintenance.	ORP	Continuous	Process Control		0	0	0	0 x		0
							pH	Continuous	Process Control	pH		0	0	0 x		0
				Grab	Extendable Pole	Easy access for sampling.	ORP	Weekly	On-line instrument Check		0 W	G			89	89
							pH	Weekly	On-line instrument Check	pH	W		0	x		89
							Ammonia	Monthly	Process Control	AmmFilt	M		0	x		89
							Nitrite	Monthly	Process Control	NO2filt	M		0	x		89
							Nitrate	Monthly	Process Control	NO3filt	M		0	x		89
							Ortho P	Monthly	Process Control	Phosphorus, filt	M		0	x		89
							TSS	Monthly	Process Control	TSSwv	M		0	x		89
							VSS	Monthly	Process Control	TVSS	M		0	x		89
							BOD - Soluble Carbonaceous	Monthly	Process Control	CBOD5filt	M		0	x		89
							VFA Total	Monthly	Process Control	UVtransm254unFilt	M		0	x		89
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR		0	x		89

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
R2	Biological Nutrient Removal Facility: Biological Treatment	Mixed Liquor	All aerated zones of each bioreactor	Continuous	On-line Instrument	Easy access for calibration and maintenance.	DO	Continuous	Process Control		0	0	0	0 x	0
							pH	Continuous	Process Control	pH		0	0	0 x	0
							Ammonia	Continuous	Process Control	AmmFilt		0	0	0 x	0
				Grab	Extendable Pole	Easy access for sampling.	DO	Weekly	On-line instrument Check		0 W	G		0 x	0
							pH	Weekly	On-line instrument Check	pH	W		0	x	0
							Ammonia	Weekly	On-line instrument Check	AmmFilt	W		0	x	0
							Nitrite	Monthly	Process Control	NO2filt	M		0	x	0
							Nitrate	Monthly	Process Control	NO3filt	M		0	x	0
							Ortho P	Monthly	Process Control	Phosphorus, filt	M		0	x	0
							TSS	Monthly	Process Control	TSSwv	M		0	x	0
							VSS	Monthly	Process Control	TVSS	M		0	x	0
							BOD - Soluble Carbonaceous	Monthly	Process Control	CBOD5filt	M		0	x	0
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR		0	x	0
R2	Biological Nutrient Removal Facility: Biological Treatment	Mixed Liquor	Zone or channel where Mixed Liquor Return Intake is located in vicinity of the intake.	Continuous	On-line Instrument	Easy access for calibration and maintenance.	DO	Continuous	Process Control		0	0	0	0 x	0
				Grab	Extendable Pole	Easy access for sampling.	DO	Weekly	On-line instrument Check		0 W	G		0 x	0
R3	Biological Nutrient Removal Facility: Mixed Liquor Distribution	Mixed Liquor	Mixed liquor channel to Secondary	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Ammonia	Daily	Process Control	AmmFilt	D	24CF		90	90
							Alkalinity	Daily	Monitoring	Alkalinity, total-pH4.5	D		0	x	90
							Nitrite	Daily	Process Control	NO2filt	D		0	x	90
							Nitrate	Daily	Process Control	NO3filt	D		0	x	90
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	x	90
							TSS	Daily	Process Control	TSSwv	D		0	x	90
							VSS	Daily	Process Control	TVSS	D		0	x	90
							BOD - Soluble Carbonaceous	Daily	Process Control	CBOD5filt	D		0	x	90
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR		0	x	90
				Grab	Extendable Pole	Easy access for sampling. Preferably Sampling Station with potable water and sink provided for flushing of sampling lines. Indoor space should be provided in vicinity of sampling location for immediate testing.	SV30	2/ Day	Monitoring	Sludge Volume Index	2D	G		28 x	28
S1	Secondary Clarification Facility: Secondary Clarifiers	Clarifier Effluent	Effluent from each Secondary Clarifier	Grab	Extendable Pole	Easy access for sampling. Turbidity measurement should be conducted	TSS	As required	Removal Efficiencies	TSSwv	AR	G		91	91
					or Sample Station		Turbidity	Daily	Monitoring	Turbidity	D		0	x	91
S1	Secondary Clarification Facility: Secondary Clarifiers	Clarifier Blanket	For each Secondary Clarifier	Grab	Sludge Judge	Easy access for sampling. TSS data will be	Sludge Blanket & Interface	2/ Day	Monitoring		0 2D	G		92	92
							TSS	Daily	Process Control	TSSwv	D		0	x	92
							VSS	Daily	Process Control	TVSS	D		0	x	92
				Continuous	On-line instrument. May be installed in addition to manual sludge blanket judge.	If on-line instrument installed frequency of manual sludge blanket depth measurement maybe reduced to 3/week. Ensure easy access for calibration and maintenance.	Sludge Blanket & Interface	Continuous	Monitoring		0	0	0	93	93
S2	Secondary Clarification Facility: RAS/WAS Collection & Pumping	Return Activated Sludge	Each RAS pump in service	Grab	Sampling port	Easy access for sampling.	TSS	As required	Process Control	TSSwv	AR	G		94	94
			Common RAS header/channel. In	Grab	Sample Station	Easy access for sampling. Potable water and	SOUR	As required	Process Control	Specific Oxygen Uptake Rate	AR	G		34	34
							TSS	Daily	On-line instrument Check	TSSwv	D		0	34 x	34
							VSS	Daily	Monitoring	TVSS	D		0	34 x	34
							pH	Daily	Process Control	pH	D		0	34 x	34
							ORP	Daily	Process Control		0 D		0	34 x	34
							Temperature	Daily	Monitoring	Temperature	D		0	34 x	34
					On-line Instrument	Easy access for calibration and maintenance.	TSS	Continuous	Process Control	TSSwv		0	0	x	34
S2	Secondary Clarification Facility: RAS/WAS Collection & Pumping	Wasted Activated Sludge (WAS)	Common WAS header/channel. In case of multiple headers/channels, sufficient number of sampling port should be provided to monitor entire WAS flow.	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid section of pressurized pipe with carboy in refrigerator for sample storage. Programed to collect flow-weighted samples. Provide means to minimize impact of biofilm growth on quality of samples. Ensure that all automatic samplers are designed to meet the area classification.	TSS	Daily	On-line instrument Check	TSSwv	D	24CF		40 x	40
							VSS	Daily	Process Control	TVSS	D		0	40 x	40
				Grab	Sample Station	Easy access for sampling. Potable water and sink provided for flushing of sampling lines.	TSS	Daily	On-line instrument Check	TSSwv	D	G		43 x	43
							VSS	Daily	Process Control	TVSS	D		0	43 x	43
				Continuous	On-line Instrument	Easy access for calibration and maintenance.	TSS	Continuous	Process Control	TSSwv		0	0	95	95

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
S1	Secondary Clarification Facility: Secondary Clarifiers	Secondary Effluent	Discharged channel where	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Monitoring	Alkalinity, total-pH4.5	D	24CF	13	x	13
							pH	Daily	Monitoring	pH	D	0	13	x	13
							Ammonia	Daily	Monitoring	AmmFilt	D	0	13	x	13
							Nitrite	Daily	Monitoring	NO2filt	D	0	13	x	13
							Nitrate	Daily	Monitoring	NO3filt	D	0	13	x	13
							TN - Soluble	Daily	Monitoring	Total Nitrogen, filt	D	0	13	x	13
							TN	Daily	Monitoring	Total Nitrogen	D	0	13	x	13
							Ortho P	Daily	Monitoring	Phosphorus, filt	D	0	13	x	13
							TP	Daily	Monitoring	Phosphorus, total	D	0	13	x	13
							TSS	Daily	Monitoring	TSSwv	D	0	13	x	13
							VSS	Daily	Monitoring	TVSS	D	0	13	x	13
							BOD - Carbonaceous	Daily	Monitoring	CBOD5	D	0	13	x	13
							BOD - Soluble Carbonaceous	Daily	Monitoring	CBOD5filt	D	0	13	x	13
							COD - Total	Daily	Monitoring	COD	D	0	13	x	13
							COD - Soluble	Daily	Monitoring	CODfilt	D	0	13	x	13
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR	0	13	x	13
							UV Transmittance	Daily	On-line instrument Check	UVtransm254unFilt	D	0	13	x	13
				Grab	Extendable Pole	Easy access for sampling.	Alkalinity	As required	Monitoring	Alkalinity, total-pH4.5	AR	G		96	96
							pH	As required	Monitoring		AR	0	x		96
							Ammonia	As required	Monitoring	AmmFilt	AR	0	x		96
							Nitrite	As required	Monitoring	NO2filt	AR	0	x		96
							Nitrate	As required	Monitoring	NO3filt	AR	0	x		96
							TN	As required	Monitoring	Total Nitrogen	AR	0	x		96
							Ortho P	As required	Monitoring	Phosphorus, filt	AR	0	x		96
							TP	As required	Monitoring	Phosphorus, total	AR	0	x		96
							TSS	As required	Monitoring	TSSwv	AR	0	x		96
							VSS	As required	Monitoring	TVSS	AR	0	x		96
							BOD - Carbonaceous	As required	Monitoring	CBOD5	AR	0	x		96
							BOD - Soluble Carbonaceous	As required	Monitoring	CBOD5filt	AR	0	x		96
							COD - Total	As required	Monitoring	COD	AR	0	x		96
							COD - Soluble	As required	Monitoring	CODfilt	AR	0	x		96
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR	0	x		96
							UV Transmittance	As required	On-line instrument Check	UVtransm254unFilt	AR	0	x		96
U1	UV Disinfection Facility: UV Disinfection	Secondary Effluent combine	Secondary effluent channel feeding the UV system	Continuous	On-line Instrument (integrated with UV disinfection control system)	Easy access for sampling, calibration and maintenance.	UV Transmittance	Continuous	Process Control	UVtransm254unFilt	0	0	0	x	0
				Grab	Extendable Pole	Easy access for sampling.	E. Coli & Fecal Coliform	Daily	Regulatory	Coliform Escherichia	D	G	16	x	16
U1	UV Disinfection Facility: UV Disinfection	UV Disinfection	UV disinfection channel	Continuous	On-line Instrument (integrated with UV disinfection control system)	Easy access for sampling, calibration and maintenance.	UV Intensity	Continuous	Regulatory		0	0	0	x	0
U3	UV Disinfection Facility: Effluent Sampling	Final Effluent	Discharge channel to the outfall to	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Monitoring	Alkalinity, total-pH4.5	D	24CF	19	x	19
							Ammonia	Daily	Regulatory	AmmFilt	D	0	19	x	19
							Nitrite	Daily	Monitoring	NO2filt	D	0	19	x	19
							Nitrate	Daily	Monitoring	NO3filt	D	0	19	x	19
							TN - Soluble	Daily	Monitoring	Total Nitrogen, filt	D	0	19	x	19
							TN	Daily	Regulatory	Total Nitrogen	D	0	19	x	19
							Ortho P	Daily	Monitoring	Phosphorus, filt	D	0	19	x	19
							TP	Daily	Regulatory	Phosphorus, total	D	0	19	x	19
							TSS	Daily	Regulatory	TSSwv	D	0	19	x	19
							VSS	Daily	Monitoring	TVSS	D	0	19	x	19
							BOD - Total	Daily	Regulatory	BOD5	D	0	19	x	19
							BOD - Carbonaceous	Daily	Regulatory	CBOD5	D	0	19	x	19
							BOD - Soluble Carbonaceous	Daily	Monitoring	CBOD5filt	D	0	19	x	19
							COD - Total	Daily	Monitoring	COD	D	0	19	x	19
							COD - Soluble	Daily	Monitoring	CODfilt	D	0	19	x	19
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR	0	19	x	19
							UV Transmittance	Daily	On-line instrument Check	UVtransm254unFilt	D	0	19	x	19

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
					On-line Instrument	Easy access for calibration and maintenance.	pH	Continuous	Regulatory	pH		0	0	0 x	0
							Temperature	Continuous	Regulatory	Temperature		0	0	0 x	0
				Grab	Extendable Pole	Easy access for sampling.	Alkalinity	As required	Monitoring	Alkalinity, total-pH4.5	AR	G		25 x	25
							pH	Daily (at high flows)***	Regulatory	pH	D (HF)		0	25 x	25
							Temperature	Daily (at high flows)***	Regulatory	Temperature	D (HF)		0	25 x	25
							Ammonia	As required	Monitoring	AmmFilt	AR		0	25 x	25
							Nitrite	As required	Monitoring	NO2filt	AR		0	25 x	25
							Nitrate	As required	Monitoring	NO3filt	AR		0	25 x	25
							TN - Soluble	As required	Monitoring	Total Nitrogen, filt	AR		0	25 x	25
							TN	As required	Monitoring	Total Nitrogen	AR		0	25 x	25
							Ortho P	As required	Monitoring	Phosphorus, filt	AR		0	25 x	25
							TP	As required	Monitoring	Phosphorus, total	AR		0	25 x	25
							TSS	As required	Monitoring	TSSwv	AR		0	25 x	25
							VSS	As required	Monitoring	TVSS	AR		0	25 x	25
							BOD - Total	As required	Monitoring	BOD5	AR		0	25 x	25
							BOD - Carbonaceous	As required	Monitoring	CBOD5	AR		0	25 x	25
							BOD - Soluble Carbonaceous	As required	Monitoring	CBOD5filt	AR		0	25 x	25
							COD - Total	As required	Monitoring	COD	AR		0	25 x	25
							COD - Soluble	As required	Monitoring	CODfilt	AR		0	25 x	25
							SOUR	As required	Monitoring	Specific Oxygen Uptake Rate	AR		0	25 x	25
							UV Transmittance	As required	On-line instrument Check	UVtransm254unFilt	AR		0	25 x	25
							E. Coli & Fecal Coliform	Daily	Regulatory	Coliform Escherichia	D		0	25 x	25
							Acute Lethality **	Quarterly	Regulatory	Trout Toxicity	Q		0	25 x	25
							Comprehensive Test List*	Quarterly	Regulatory	Schedule A	Q		0	25 x	25
J1	Fermentation and Phosphorus Release Facility: Primary Sludge Fermenters	Fermenter Blanket	Each Primary Sludge Fermenter.	Grab	Sample Station	Fermenters should be equipped with multiple sampling ports at various depth of the tank to allow for sludge sampling and inspection sludge blanket depth. Potable water and sink should be provided for sample lines flushing.	Sludge Blanket & Interface	Daily	Process Control		0 D	G		0 x	0
							TS	As required	Process Control	TSwv	AR		0	x	0
J1	Fermentation and Phosphorus Release Facility: Primary Sludge	Fermented Primary Sludge	Fermented Primary Sludge to	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Monitoring	TSwv	D	G		97	97
							VS	Daily	Process Control	TVS	D		0	x	97
							pH	Daily	Process Control	pH	D		0	x	97
							Temperature	Daily	Process Control	Temperature	D		0	x	97
							Ammonia	Weekly	Monitoring	AmmFilt	W		0	x	97
							TN	Weekly	Monitoring	Total Nitrogen	W		0	x	97
							TP	Weekly	Monitoring	Phosphorus, total	W		0	x	97
							Ortho P	Weekly	Monitoring	Phosphorus, filt	W		0	x	97
							VFA Total	Daily	Process Control	UVtransm254unFilt	D		0	x	97
						Analysis conducted on-site using moisture analyzer.	Moisture	2/ Day	Process Control	Moisture	2D		0	x	97
J1	Fermentation and Phosphorus Release Facility: Primary Sludge Fermenters	Fermenter Supernatant	Each Primary Sludge Fermenter overflow	Grab	Sample Station	Easy access for sampling. Potable water and sink provided for flushing of sampling lines.	TSS	Daily	Process Control	TSSwv	D	G		98	98
							VSS	Daily	Process Control	TVSS	D		0	x	98
							Ammonia	3/Week	Monitoring	AmmFilt	3W		0	x	98
							TN	3/Week	Monitoring	Total Nitrogen	3W		0	x	98
							Ortho P	3/Week	Monitoring	Phosphorus, filt	3W		0	x	98
							TP	3/Week	Monitoring	Phosphorus, total	3W		0	x	98
							VFA Total	Daily	Process Control	UVtransm254unFilt	D		0	x	98
							VFA-Acetic	Monthly	Monitoring	VFA-Acetic	M		0	x	98
							VFA-Proprionic	Monthly	Monitoring	VFA-Total	M		0	x	98
T1	Pre-digestion Sludge Treatment Facility: WAS Thickening	Thickened Waste Activated	Common header of underflow	Continuous	On-line Instrument		Density	Continuous	Process Control	Density		0	0	0 x	0
				Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Monitoring	TSwv	D	G		99	99
							VS	Daily	Process Control/Removal Efficiencies	TVS	D		0	x	99
						Analysis conducted on-site using moisture analyzer.	Moisture	2/ Day	Process Control/Removal Efficiencies	Moisture	2D		0	x	99
			Underflow line from each Waste	Grab	Sampling port	Easy access for sampling.	TS	As required	Removal Efficiencies	TSwv	AR	G		100	100
							VS	As required	Removal Efficiencies	TVS	AR		0	x	100

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
T1	Pre-digestion Sludge Treatment Facility: WAS Thickening	Overflow from Waste	Common header of overflow from	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control/Removal Efficiencies	TSwv	D	G		101	101
							VS	Daily	Process Control/Removal Efficiencies	TVS	D		0 x		101
							Ammonia	2/Week	Process Control	AmmFilt	2W		0 x		101
							TN	2/Week	Process Control	Total Nitrogen	2W		0 x		101
							Ortho P	3/Week	Process Control	Phosphorus, filt	3W		0 x		101
							TP	3/Week	Process Control	Phosphorus, total	3W		0 x		101
			Overflow line from each Waste	Grab	Sampling port	Easy access for sampling.	TS	As required	Removal Efficiencies	TSwv	AR	G		102	102
							VS	As required	Removal Efficiencies	TVS	AR		0 x		102
T1	Pre-digestion Sludge Treatment Facility: WAS Thickening	Polymer solution for WAS Thickening	Polymer solution ready for dosing. Each polymer make-up station.	Grab	Sampling port	Easy access for sampling.	TS	As required	Product Check	TSwv	AR	G		103	103
N1	Hauled Raw Sludge Receiving Facility: Hauled Sludge Receiving	Hauled Raw Sludge	Effluent from Hauled Sludge	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control	TSwv	D	G		104	104
							VS	Daily	Process Control	TVS	D		0 x		104
							Ammonia	2/Week	Monitoring	AmmFilt	2W		0 x		104
							TN	2/Week	Monitoring	Total Nitrogen	2W		0 x		104
							Ortho P	3/Week	Process Control	Phosphorus, filt	3W		0 x		104
							TP	3/Week	Process Control	Phosphorus, total	3W		0 x		104
							VFA Total	3/Week	Process Control	UVtransm254unFilt	3W		0 x		104
							VFA-Acetic	Monthly	Monitoring	VFA-Acetic	M		0 x		104
							VFA-Proprionic	Monthly	Monitoring	VFA-Total	M		0 x		104
							pH	3/Week	Monitoring	pH	3W		0 x		104
J2	Fermentation and Phosphorus Release Facility: Phosphorus Release	Phosphorus Released	Sludge from each Phosphorus	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Monitoring	TSwv	D	G		105	105
							VS	Daily	Process Control	TVS	D		0 x		105
							pH	Daily	Monitoring	pH	D		0 x		105
							Temperature	Daily	Monitoring	Temperature	D		0 x		105
							Ammonia	2/Week	Monitoring	AmmFilt	2W		0 x		105
							TN	2/Week	Monitoring	Total Nitrogen	2W		0 x		105
							TP	Daily	Process Control	Phosphorus, total	D		0 x		105
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0 x		105
							VFA Total	2/Week	Process Control	UVtransm254unFilt	2W		0 x		105
						Analysis conducted on-site using moisture analyzer.	Moisture	2/ Day	Process Control	Moisture	2D		0 x		105
T2	Pre-digestion Sludge Treatment Facility: Sludge Screening	Screened Sludge	Screened Sludge effluent from	Grab	Sampling port	Easy access for sampling.	TS	As required	Removal Efficiencies	TSwv	AR	G		106	106
							VS	As required	Removal Efficiencies	TVS	AR		0 x		106
T2	Pre-digestion Sludge Treatment Facility: Sludge Screening	Screened Sludge	Screened sludge feed to the	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control/Removal Efficiencies	TSwv	D	G		107	107
							VS	Daily	Process Control/Removal Efficiencies	TVS	D		0 x		107
							pH	Daily	Monitoring	pH	D		0 x		107
							Temperature	Daily	Monitoring	Temperature	D		0 x		107
							Ammonia	2/Week	Monitoring	AmmFilt	2W		0 x		107
							TN	2/Week	Monitoring	Total Nitrogen	2W		0 x		107
							TP	2/Week	Monitoring	Phosphorus, total	2W		0 x		107
							Ortho P	2/Week	Monitoring	Phosphorus, filt	2W		0 x		107
							VFA Total	Weekly	Monitoring	UVtransm254unFilt	W		0 x		107
T1	Pre-digestion Sludge Treatment Facility: WAS Thickening	Polymer solution for Intermediate Dewatering	Polymer solution ready for dosing. Each polymer make-up station.	Grab	Sampling port	Easy access for sampling.	TS	As required	Product Check	TSwv	AR	G		108	108
T5	Pre-digestion Sludge Treatment Facility: Thermal Hydrolysis	Thermal Hydrolysis Feed	Dewatered sludge feed to THP. If	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Monitoring	TSwv	D	G		109	109
							VS	Daily	Process Control	TVS	D		0 x		109
							Temperature	Daily	Monitoring	Temperature	D		0 x		109
						Analysis conducted on-site using moisture analyzer.	Moisture	2/ Day	Process Control	Moisture	2D		0 x		109
D1	Anaerobic Digestion Facility: Anaerobic Digesters	Digesters Feed	THP effluent feed to digesters	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control	TSwv	D	G		110	110
							VS	Daily	Process Control	TVS	D		0 x		110
							Temperature	Daily	Monitoring	Temperature	D		0 x		110
							Ammonia	2/Week	Monitoring	AmmFilt	2W		0 x		110
							TN	2/Week	Monitoring	Total Nitrogen	2W		0 x		110
							TP	2/Week	Monitoring	Phosphorus, total	2W		0 x		110
							Ortho P	2/Week	Monitoring	Phosphorus, filt	2W		0 x		110

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
D1	Anaerobic Digestion Facility: Anaerobic Digesters	Digested sludge	Digested sludge effluent from each	Grab	Sample Station	Easy access for sampling. Potable water and	TS	Daily	Process Control	TSwv	D	G	55 x		55
							VS	Daily	Process Control	TVS	D	0	55 x		55
							pH	Daily	Process Control	pH	D	0	55 x		55
							Temperature	Daily	Process Control	Temperature	D	0	55 x		55
							Ammonia	2/Week	Monitoring	AmmFilt	2W	0	55 x		55
							TN	2/Week	Monitoring	Total Nitrogen	2W	0	55 x		55
							TP	2/Week	Monitoring	Phosphorus, total	2W	0	55 x		55
							Ortho P	2/Week	Monitoring	Phosphorus, filt	2W	0	55 x		55
							VFA-Acetic	2/Week	Monitoring	VFA-Acetic	2W	0	55 x		55
							VFA-iButyric	2/Week	Monitoring	VFA-iButyric	2W	0	55 x		55
							VFA-iValeric	2/Week	Monitoring	VFA-iValeric	2W	0	55 x		55
							VFA-nButyric	2/Week	Monitoring	VFA-Total	2W	0	55 x		55
							VFA-nValeric	2/Week	Monitoring	VFA-Total	2W	0	55 x		55
							VFA-Proprionic	2/Week	Monitoring	VFA-Total	2W	0	55 x		55
							VFA Total	2/Week	Monitoring	UVtransm254unFilt	2W	0	55 x		55
							Gas Analysis (CH4 & H2S)	2/Week	Monitoring	Off-gas Analysis (CH4 and H2S)	2W	0	55 x		55
D1	Anaerobic Digestion Facility: Anaerobic Digesters	Raw Digester Gas	Raw Digester Gas from each	Grab	Sampling port	Easy access for sampling.	H2S	Monthly	Process Control/Removal Efficiencies	Hydrogen Sulfide	M	G	52 x		52
							CO2	Monthly	Monitoring	Carbon Dioxide	M	0	52 x		52
							CH4	Monthly	Monitoring	Methane	M	0	52 x		52
							N2	Monthly	Monitoring	Nitrogen	M	0	52 x		52
K3	Digester Gas Handling Facility: Digester Gas Storage	Raw Digester Gas	Raw Digester Gas from each Gas	Grab	Sampling port	Easy access for sampling.	H2S	Monthly	Process Control/Removal Efficiencies	Hydrogen Sulfide	M	G		111	111
							CO2	Monthly	Monitoring	Carbon Dioxide	M	0	x		111
							CH4	Monthly	Monitoring	Methane	M	0	x		111
							N2	Monthly	Monitoring	Nitrogen	M	0	x		111
K1	Digester Gas Handling Facility: H2S Removal	Digester Gas pre-	Digester Gas effluent from each	Grab	Sampling port	Easy access for sampling.	H2S	Quarterly	On-line instrument Check	Hydrogen Sulfide	Q	G		112	112
				Continuous	On-line Instrument	Easy access for calibration and maintenance. Ensure that all automatic samplers are designed to meet the area classification.	H2S	Continuous	Process Control/Removal Efficiencies	Hydrogen Sulfide	0	0		113	113
K4	Digester Gas Handling Facility: Digester Gas Conditioning	Conditioned Digester Gas	Conditioned Digester Gas from effluent of each containing process	Grab	Sampling port	Easy access for sampling.	H2S	Quarterly	Process Control/Removal Efficiencies	Hydrogen Sulfide	Q	G		114	114
							CO2	Quarterly	Monitoring	Carbon Dioxide	Q	0	x		114
							CH4	Quarterly	Monitoring	Methane	Q	0	x		114
							N2	Quarterly	Monitoring	Nitrogen	Q	0	x		114
							Humidity	Quarterly	Monitoring	Humidity	Q	0	x		114
V1	Biosolids Processing and Loading Facility: Final Dewatering	Biosolids	Sludge cake from each Final	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	TS	Daily	Process Control	TSwv	D	24CF	46 x		46
							VS	Daily	Process Control	TVS	D	0	46 x		46
							TN	2/Week	Monitoring	Total Nitrogen	2W	0	46 x		46
							TP	2/Week	Monitoring	Phosphorus, total	2W	0	46 x		46
							Gas Analysis (CH4 & H2S)	2/Week	Monitoring	Off-gas Analysis (CH4 and H2S)	2W	0	46 x		46
V1	Biosolids Processing and Loading Facility: Final Dewatering	Polymer solution for Final Dewatering	Polymer solution ready for dosing. Each polymer make-up station.	Grab	Sampling port	Easy access for sampling.	TS	As required	Product Check	TSwv	AR	G	64 x		64
T4	Pre-digestion Sludge Treatment Facility: Intermediate Dewatering & Eq	Intermediate Dewatering	Intermediate Dewatering Centrate	Composite - Daily	Composite Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF		115	115
							pH	Daily	Process Control	pH	D	0	x		115
							Ammonia	Daily	Process Control/Removal Efficiencies	AmmFilt	D	0	x		115
							TN	Daily	Process Control/Removal Efficiencies	Total Nitrogen	D	0	x		115
							Ortho P	Daily	Process Control/Removal Efficiencies	Phosphorus, filt	D	0	x		115
							TP	Daily	Process Control/Removal Efficiencies	Phosphorus, total	D	0	x		115
							TSS	Daily	Monitoring	TSSwv	D	0	x		115
							VSS	Daily	Monitoring	TVSS	D	0	x		115
							Magnesium - Dissolved	Monthly	Monitoring	Magnesium, filt	M	0	x		115
							Calcium - Dissolved	Monthly	Monitoring	Calcium filt	M	0	x		115
V3	Biosolids Processing and Loading Facility: Phosphorus Recovery	Final Dewatering Centrate	Final Dewatering Centrate feed line	Composite - Daily	Automatic Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF		116	116
							pH	Daily	Process Control	pH	D	0	x		116
							Ammonia	Daily	Process Control/Removal Efficiencies	AmmFilt	D	0	x		116
							TN	Daily	Process Control/Removal Efficiencies	Total Nitrogen	D	0	x		116
							Ortho P	Daily	Process Control/Removal Efficiencies	Phosphorus, filt	D	0	x		116
							TP	Daily	Process Control/Removal Efficiencies	Phosphorus, total	D	0	x		116
							TSS	Daily	Monitoring	TSSwv	D	0	x		116
							VSS	Daily	Monitoring	TVSS	D	0	x		116
							Magnesium - Dissolved	Monthly	Monitoring	Magnesium, filt	M	0	x		116
							Calcium - Dissolved	Monthly	Monitoring	Calcium filt	M	0	x		116

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
V3	Biosolids Processing and Loading Facility: Phosphorus Recovery	Post Recovery Centrate	Centrate effluent from Phosphorus	Composite - Daily	Automatic Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF		70 x	70
							pH	Daily	Process Control	pH	D		0	70 x	70
							Ammonia	Daily	Process Control	AmmFilt	D		0	70 x	70
							TN	Regulatory	Process Control	Total Nitrogen	D		0	70 x	70
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	70 x	70
							TP	Daily	Process Control	Phosphorus, total	D		0	70 x	70
							TSS	Daily	Process Control	TSSwv	D		0	70 x	70
							VSS	Daily	Process Control	TVSS	D		0	70 x	70
							BOD - Carbonaceous	Weekly	Process Control	CBOD5	W		0	70 x	70
							BOD - Soluble Carbonaceous	Monthly	Process Control	CBOD5filt	M		0	70 x	70
							COD - Total	Daily	Process Control	COD	D		0	70 x	70
							COD - Soluble	Daily	Process Control	CODfilt	D		0	70 x	70
							SOUR	As required	Process Control	Specific Oxygen Uptake Rate	AR		0	70 x	70
C2	Centrate Treatment Facility: Centrate Equalization	Treated Centrate	Supernatant from Centrate	Composite - Daily	Automatic Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Process Control	Alkalinity, total-pH4.5	D	24CF		76 x	76
							pH	Daily	Process Control	pH	D		0	76 x	76
							Ammonia	Daily	Process Control	AmmFilt	D		0	76 x	76
							Nitrite	Daily	Process Control	NO2filt	D		0	76 x	76
							Nitrate	Daily	Process Control	NO3filt	D		0	76 x	76
							TN	Daily	Process Control	Total Nitrogen	D		0	76 x	76
							TN - Soluble	Monthly	Process Control	Total Nitrogen, filt	M		0	76 x	76
							Ortho P	Daily	Process Control	Phosphorus, filt	D		0	76 x	76
							TP	Daily	Process Control	Phosphorus, total	D		0	76 x	76
							TSS	Daily	Process Control	TSSwv	D		0	76 x	76
							VSS	Daily	Process Control	TVSS	D		0	76 x	76
							BOD - Carbonaceous	Weekly	Process Control	CBOD5	W		0	76 x	76
							BOD - Soluble Carbonaceous	Monthly	Process Control	CBOD5filt	M		0	76 x	76
							COD - Total	Daily	Process Control	COD	D		0	76 x	76
							COD - Soluble	Daily	Process Control	CODfilt	D		0	76 x	76
							SOUR	As required	Process Control	Specific Oxygen Uptake Rate	AR		0	76 x	76
C1	Centrate Treatment Facility: Centrate Treatment	Centrate Treatment Mixed	Mixed liquor from Centrate	Continuous	On-line Instrument	Existing Chemscan analyzer.	Ammonia	Continuous	Monitoring	AmmFilt		0	0	0 x	0
							Nitrate	Continuous	Monitoring	NO3filt		0	0	0 x	0
							Nitrite	Continuous	Monitoring	NO2filt		0	0	0 x	0
							Ortho P	Continuous	Monitoring	Phosphorus, filt		0	0	0 x	0
						Sensors installed in aeration basins.	DO	Continuous	Process Control		0	0	0	0 x	0
							pH	Continuous	Process Control	pH		0	0	0 x	0
							Ammonia	Continuous	Process Control	AmmFilt		0	0	0 x	0
							Nitrite	Continuous	Process Control	NO2filt		0	0	0 x	0
				Grab	Extendable Pole or Sample Station	Easy access for sampling. Sample should be	Alkalinity	As required	Process Control	Alkalinity, total-pH4.5	AR	G		117	117
							pH	As required	On-line instrument Check	pH	AR		0	x	117
							Ammonia	As required	On-line instrument Check	AmmFilt	AR		0	x	117
							Nitrite	As required	On-line instrument Check	NO2filt	AR		0	x	117
							Nitrate	As required	On-line instrument Check	NO3filt	AR		0	x	117
							TN	As required	Process Control	Total Nitrogen	AR		0	x	117
							Ortho P	As required	Monitoring	Phosphorus, filt	AR		0	x	117
							TP	As required	Monitoring	Phosphorus, total	AR		0	x	117
							TSS	As required	Process Control	TSSwv	AR		0	x	117
							VSS	As required	Process Control	TVSS	AR		0	x	117
							BOD - Carbonaceous	As required	Process Control	CBOD5	AR		0	x	117
							BOD - Soluble Carbonaceous	As required	Process Control	CBOD5filt	AR		0	x	117
							COD - Total	As required	Process Control	COD	AR		0	x	117
							COD - Soluble	As required	Process Control	CODfilt	AR		0	x	117
							SOUR	As required	Process Control	Specific Oxygen Uptake Rate	AR		0	x	117
C1	Centrate Treatment Facility: Centrate Treatment	Centrate Treatment Waste	Centrate Treatment Waste	Grab	Extendable Pole or Sample Station	Easy access for sampling.	TSS	Daily	Process Control	TSSwv	D	G		118	118
							VSS	Daily	Process Control	TVSS	D		0	x	118
X1	Hauled Wastewater Receiving Facility: Hauled Wastewater Receiving	Hauled Wastewater	Each discharge line to Receiving	Grab	Automatic Sampler	Automatic, refrigerated stationary sampler	Alkalinity	Random and high risk loads	Source Control	Alkalinity, total-pH4.5	OD	G		119	119
							pH	Random and high risk loads	Source Control	pH	OD		0	x	119
							Temperature	Random and high risk loads	Source Control	Temperature	OD		0	x	119

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Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose		Freq	Sample type	Column number		Column number incl new sampling points
							Ammonia	Random and high risk loads	Source Control	AmmFilt	OD	0	x		119
							TN	Random and high risk loads	Source Control	Total Nitrogen	OD	0	x		119
							Ortho P	Random and high risk loads	Source Control	Phosphorus, filt	OD	0	x		119
							TP	Random and high risk loads	Source Control	Phosphorus, total	OD	0	x		119
							TSS	Random and high risk loads	Source Control	TSSwv	OD	0	x		119
							VSS	Random and high risk loads	Source Control	TVSS	OD	0	x		119
							COD - Total	Random and high risk loads	Source Control	COD	OD	0	x		119
							COD - Soluble	Random and high risk loads	Source Control	CODfilt	OD	0	x		119
							SOUR	Random and high risk loads	Source Control	Specific Oxygen Uptake Rate	OD	0	x		119
							Comprehensive Test List*	Random and high risk loads	Source Control	Schedule A	OD	0	x		119
X2	Hauled Wastewater Receiving Facility: Hauled Leachate Receiving	Hauled Leachate	Each discharge line to Receiving	Grab	Automatic Sampler	Automatic, refrigerated stationary sampler	Alkalinity	Random and high risk loads	Source Control	Alkalinity, total-pH4.5	OD	G		120	120
							pH	Random and high risk loads	Source Control	pH	OD	0	x		120
							Temperature	Random and high risk loads	Source Control	Temperature	OD	0	x		120
							Ammonia	Random and high risk loads	Source Control	AmmFilt	OD	0	x		120
							TN	Random and high risk loads	Source Control	Total Nitrogen	OD	0	x		120
							Ortho P	Random and high risk loads	Source Control	Phosphorus, filt	OD	0	x		120
							TP	Random and high risk loads	Source Control	Phosphorus, total	OD	0	x		120
							TSS	Random and high risk loads	Source Control	TSSwv	OD	0	x		120
							VSS	Random and high risk loads	Source Control	TVSS	OD	0	x		120
							COD - Total	Random and high risk loads	Source Control	COD	OD	0	x		120
							COD - Soluble	Random and high risk loads	Source Control	CODfilt	OD	0	x		120
							SOUR	Random and high risk loads	Source Control	Specific Oxygen Uptake Rate	OD	0	x		120
							Comprehensive Test List*	Random and high risk loads	Source Control	Schedule A	OD	0	x		120
		Process Drain	Any main process/sanitary drain	Composite - Daily	Automatic Sampler	Automatic, plunger sampler mounted in mid	Alkalinity	Daily	Source Control	Alkalinity, total-pH4.5	D	24CF		121	121
							pH	Daily	Source Control	pH	D	0	x		121
							Temperature	Daily	Source Control	Temperature	D	0	x		121
							Ammonia	Daily	Source Control	AmmFilt	D	0	x		121
							TN	Daily	Source Control	Total Nitrogen	D	0	x		121
							Ortho P	Daily	Source Control	Phosphorus, filt	D	0	x		121
							TP	Daily	Source Control	Phosphorus, total	D	0	x		121
							TSS	Daily	Source Control	TSSwv	D	0	x		121
							VSS	Daily	Source Control	TVSS	D	0	x		121
							BOD - Total	Weekly	Source Control	BOD5	W	0	x		121
							COD - Total	Daily	Source Control	COD	D	0	x		121
							COD - Soluble	Daily	Source Control	CODfilt	D	0	x		121

Process Code	Process description	Sampling Point	Sample Location Description	Sample Type	Sample Equipment	Sample Collection Description	Analytical Parameters	Minimum Monitoring Frequency	Primary Purpose
R5	Biological Nutrient Removal Facility: Flushing Water Pumping	Flushing Water	Flushing Water in holding tank	Grab	Sampling port	Easy access for sampling.	Alkalinity	Daily	Monitoring
							pH	Daily	Monitoring
							Temperature	Daily	Monitoring
							Chlorine - Residual	Daily	Process Control
							TDS	Daily	Monitoring
							E. Coli & Fecal Coliform	Daily	Monitoring
				Continuous	On-line Instrument	Easy access for calibration and maintenance.	Chlorine - Residual	Continuous	Process Control
							Conductivity	Continuous	Monitoring

[Note to WSTP: May need to update after new Licence issued]
* List of parameters in Schedule A of Environmental Act License
** Protocol outlined in Environment Canada's "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout: EPS 1/RM/13 Second Edition - December 2000"
*** Samples to be taken once each day, when flows exceed 75th percentile of the 30 day rolling average maximum daily flow.

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	Freq	Sample type	Column number		Column number incl new sampling points
Alkalinity, total-pH4.5	D	G		122	122
pH	D	0	x		122
Temperature	D	0	x		122
Chlorine, free	D	0	x		122
TDS	D	0	x		122
Coliform Escherichia	D	0	x		122
Chlorine, free	0	0	0 x		0
Conductivity	0	0	0 x		0

Analysis	Frequency											Total
	2/ Day	Daily	Daily (at high flows)***	3/Week	2/Week	Weekly	Monthly	Quarterly	As required	Continuous	Random and high risk loads	
Total	2	184	2	10	33	16	30	9	105	27	26	444
Acute Lethality **	0	0	0	0	0	0	0	1	0	0	0	1
Alkalinity	0	11	0	0	0	0	0	0	3	0	2	16
Ammonia	0	11	0	1	6	2	1	0	5	3	2	31
BOD - Carbonaceous	0	3	0	0	0	2	0	0	3	0	0	8
BOD - Soluble	0	1	0	0	0	0	0	0	0	0	0	1
BOD - Soluble Carbonaceous	0	3	0	0	1	0	4	0	3	0	0	11
BOD - Total	0	3	0	0	0	1	0	0	5	0	0	9
Calcium - Dissolved	0	0	0	0	0	0	2	0	0	0	0	2
CH_4	0	0	0	0	0	0	2	1	0	0	0	3
Chlorides	0	0	0	0	1	0	0	0	0	0	0	1
CO_2	0	0	0	0	0	0	2	1	0	0	0	3
COD - Soluble	0	6	0	0	0	0	0	0	3	0	2	11
COD - Total	0	8	0	0	0	0	0	0	7	0	2	17
Comprehensive Test List*	0	0	0	0	0	0	0	2	0	0	2	4
Conductivity	0	2	0	0	0	0	0	0	1	2	0	5
DO	0	0	0	0	0	2	0	0	0	3	0	5
E. Coli & Fecal Coliform	0	3	0	0	0	0	0	0	0	0	0	3
Gas Analysis (CH4 & H_2S)	0	0	0	0	2	0	0	0	0	0	0	2
H_2S	0	0	0	0	0	0	2	2	0	1	0	5
Humidity	0	0	0	0	0	0	0	1	0	0	0	1
Magnesium - Dissolved	0	0	0	0	0	0	2	0	0	0	0	2
Metals - Dissolved	0	0	0	0	0	1	0	0	0	0	0	1
Metals - Total	0	0	0	0	0	1	0	0	0	0	0	1
Microscopic Examination	0	0	0	0	0	0	0	0	0	0	0	0
N_2	0	0	0	0	0	0	2	1	0	0	0	3
Nitrate	0	4	0	0	0	0	2	0	3	1	0	10
Nitrite	0	4	0	0	0	0	2	0	3	2	0	11
Nitrite & Nitrate	0	3	0	0	0	0	0	0	0	0	0	3
Oil & Grease	0	0	0	0	0	0	1	0	0	0	0	1
ORP	0	1	0	0	0	1	0	0	0	1	0	3
Ortho P	0	12	0	3	3	1	2	0	5	1	2	29
pH	0	15	1	1	0	2	0	0	3	5	2	29
pH, COD, TSS	0	0	0	0	0	0	0	0	0	0	0	0
QC Check	0	0	0	0	0	0	0	0	1	0	0	1
Sludge Blanket & Interface	1	1	0	0	0	0	0	0	0	1	0	3
SOUR	0	0	0	0	0	0	0	0	11	0	2	13
Specific Gravity	0	0	0	0	0	0	0	0	0	0	0	0
Surfactant	0	0	0	0	0	0	1	0	0	0	0	1
SV30	1	0	0	0	0	0	0	0	0	0	0	1
TDS	0	1	0	0	0	0	0	0	0	0	0	1
Temperature	0	9	1	0	0	0	0	0	1	2	2	15
TKN	0	0	0	0	0	0	0	0	0	0	0	0
TKN - Soluble	0	0	0	0	0	0	0	0	0	0	0	0
TN	0	10	0	1	7	1	0	0	6	0	2	27
TOC	0	0	0	0	0	0	0	0	1	1	0	2
Total Residual Chorine (TRC)	0	0	0	0	0	0	0	0	0	0	0	0
TP	0	11	0	3	4	1	0	0	8	0	2	29
TS	0	11	0	0	2	0	0	0	9	0	0	22
TSS	0	17	0	0	0	0	2	0	9	2	2	32
Turbidity	0	1	0	0	0	0	0	0	0	0	0	1
UV Intensity	0	0	0	0	0	0	0	0	0	1	0	1
UV Transmittance	0	2	0	0	0	0	0	0	2	1	0	5
VFA (acetic and propionic)	0	0	0	0	0	0	0	0	0	0	0	0
VFA Total	0	3	0	1	5	1	1	0	2	0	0	13
VS	0	11	0	0	2	0	0	0	4	0	0	17
VSS	0	17	0	0	0	0	2	0	7	0	2	28

Process code Description	Process code	Mode of Sampling		Sampling Equipment	Analytical Parameter		Frequency Monitoring	
General: General	A0	Composite - Daily	24CF	Composite Sampler	Acute Lethality **	Trout Toxicity	2/Week	2W
General: Maintenance	A1	Composite - Manually	24CF-C	Directly by Hand	Alkalinity	Alkalinity, total-pH4.5	3/Week	3W
Centrate Treatment Facility: General	C0	Composite - Weekly	WC-C	Extendable Pole	Ammonia	AmmFilt	As required	AR
Centrate Treatment Facility: Centrate Treatment	C1	Continuous		On-line Instrument	BOD - Carbonaceous	CBOD5	Continuous	
Centrate Treatment Facility: Centrate Equalization	C2	Grab	G	or Sample Station	BOD - Soluble	BOD5filt	Daily (at high flows)***	D (HF)
Centrate Treatment Facility: Process Air Supply	C3			Same Sampler for Composite - Daily	BOD - Soluble Carbonaceous	CBOD5filt	Daily	D
Centrate Treatment Facility: Odour Control	C4			Sampling port	BOD - Total	BOD5	2/ Day	2D
Anaerobic Digestion Facility: General	D0			Sample Station	Calcium - Dissolved	Calcium filt	Monthly	M
Anaerobic Digestion Facility: Anaerobic Digesters	D1			Manually combined	CH_4	Methane	Quarterly	Q
Anaerobic Digestion Facility: Digested Sludge Holding Tanks	D2				Chlorides	Chlorine, total	New Delivery	ND
Electrical Building: General	E0				Chlorine - Residual	Chlorine, free	Random and high risk loads	OD
Ferric Chloride Receiving and Storage Facility: General	F0				CO_2	Carbon Dioxide	Weekly	W
Ferric Chloride Receiving and Storage Facility: Receiving	F1				COD - Soluble	CODfilt		
Ferric Chloride Receiving and Storage Facility: Storage	F2				COD - Total	COD		
Standby Power Generation Facility: General	G0				Comprehensive Test List*	Schedule A		
Headworks Facility: General	H0				Conductivity	Conductivity		
Headworks Facility: Raw Sewage Pumping	H1				Density	Density		
Headworks Facility: Fine Screening	H2				DO			
Headworks Facility: Grit Removal	H3				E. Coli & Fecal Coliform	Coliform Escherichia		
Headworks Facility: Wet Weather Treatment	H4				Gas Analysis (CH4 & H_2S)	Off-gas Analysis (CH4 and H2S)		
Headworks Facility: Odour Control	H5				H_2S	Hydrogen Sulfide		
Fermentation and Phosphorus Release Facility: General	J0				Humidity	Humidity		
Fermentation and Phosphorus Release Facility: Primary Sludge Fermenters	J1				Magnesium - Dissolved	Magnesium, filt		
Fermentation and Phosphorus Release Facility: Phosphorus Release	J2				Metals - Dissolved	Aluminum, filt		
Digester Gas Handling Facility: General	K0				Metals - Total	Aluminum, total		
Digester Gas Handling Facility: H2S Removal	K1				Microscopic Examination	MLSS MicroExam		
Digester Gas Handling Facility: Flare Stacks	K2				Moisture	Moisture		
Digester Gas Handling Facility: Digester Gas Storage	K3				N_2	Nitrogen		
Digester Gas Handling Facility: Digester Gas Conditioning	K4				Nitrate	NO3filt		
Digester Gas Handling Facility: CHP Generation (Future)	K5				Nitrite	NO2filt		
Administration & Main Building: General	M0				Nitrite & Nitrate	NOxfilt		
Hauled Raw Sludge Receiving Facility: General	N0				Oil & Grease	Fat, Oils and Grease		
Hauled Raw Sludge Receiving Facility: Hauled Sludge Receiving	N1				ORP			
Hauled Raw Sludge Receiving Facility: Odour Control	N2				Ortho P	Phosphorus, filt		
Primary Clarification Facility: General	P0				pH	pH		
Primary Clarification Facility: Primary Influent Flow Distribution	P1				QC Check			
Primary Clarification Facility: Primary Clarification	P2				Sludge Blanket & Interface			
Primary Clarification Facility: Primary Sludge Pumping	P3				SOUR	Specific Oxygen Uptake Rate		
Primary Clarification Facility: Primary Scum Pumping & Dewatering	P4				Surfactant	Surfactant		
Primary Clarification Facility: Odour Control	P5				SV30	Sludge Volume Index		
Wet Weather Sludge Storage Facility: General	Q0				TDS	TDS		
Wet Weather Sludge Storage Facility: HRS Storage	Q1				Temperature	Temperature		
Biological Nutrient Removal Facility: General	R0				TKN	TKN		
Biological Nutrient Removal Facility: Intermediate Pumping	R1				TKN - Soluble			
Biological Nutrient Removal Facility: Biological Treatment	R2				TN	Total Nitrogen		
Biological Nutrient Removal Facility: Mixed Liquor Distribution	R3				TN - Soluble	Total Nitrogen, filt		
Biological Nutrient Removal Facility: Process Air Supply	R4				TOC	TOC		
Biological Nutrient Removal Facility: Flushing Water Pumping	R5				TP	Phosphorus, total		
Secondary Clarification Facility: General	S0				TS	TSwv		
Secondary Clarification Facility: Secondary Clarifiers	S1				TSS	TSSwv		
Secondary Clarification Facility: RAS/WAS Collection & Pumping	S2				Turbidity	Turbidity		
Pre-digestion Sludge Treatment Facility: General	T0				UV Intensity			
Pre-digestion Sludge Treatment Facility: WAS Thickening	T1				UV Transmittance	UVtransm254unFilt		
Pre-digestion Sludge Treatment Facility: Sludge Screening	T2				VFA-Acetic	VFA-Acetic		
Pre-digestion Sludge Treatment Facility: Sludge Equalization	T3				VFA-iButyric	VFA-iButyric		
Pre-digestion Sludge Treatment Facility: Intermediate Dewatering & Equalization	T4				VFA-iValeric	VFA-iValeric		
Pre-digestion Sludge Treatment Facility: Thermal Hydrolysis	T5				VFA-nButyric	VFA-nButyric		
Pre-digestion Sludge Treatment Facility: Steam Production	T6				VFA-nValeric	VFA-nValeric		
Pre-digestion Sludge Treatment Facility: Odour Control	T7				VFA-Proprionic	VFA-Propionic		
UV Disinfection Facility: General	U0				VFA Total	VFA-Total		
UV Disinfection Facility: UV Disinfection	U1				VS	TVS		
UV Disinfection Facility: Effluent Metering	U2				VSS	TVSS		

UV Disinfection Facility: Effluent Sampling	U3
Repurposed Sludge Dewatering Building: General	W0
Biosolids Processing and Loading Facility: General	V0
Biosolids Processing and Loading Facility: Final Dewatering	V1
Biosolids Processing and Loading Facility: Biosolids Storage & Loading	V2
Biosolids Processing and Loading Facility: Phosphorus Recovery	V3
Biosolids Processing and Loading Facility: Struvite Storage	V4
Biosolids Processing and Loading Facility: Odour Control	V5
Hauled Wastewater Receiving Facility: General	X0
Hauled Wastewater Receiving Facility: Hauled Wastewater Receiving	X1
Hauled Wastewater Receiving Facility: Hauled Leachate Receiving	X2
Site Services & Facilities: General	Y0
Site Services & Facilities: Parcel A Tunnels	Y1
Site Services & Facilities: Parcel B Tunnels	Y2
Site Services & Facilities: Interceptor Junction Chamber	Y3
Site Services & Facilities: Outfall	Y4

[Note to WSTP: May need to update after new Licence issued]
* List of parameters in Schedule A of Environmental Act License
** Protocol outlined in Environment Canada's "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout: EPS 1/RM/13 Second Edition - December 2000"
*** Samples to be taken once each day, when flows exceed 75th percentile of the 30 day rolling average maximum daily flow.

City of Winnipeg
North End Water Pollution Control Centre
Licence No. 2684 RR
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SCHEDULE 'A'

Parameter	Monitoring Frequency
Arsenic, Total	Quarterly
Cadmium, Total	Quarterly
Chromium, Total	Quarterly
Chromium, Hexavalent	Quarterly
Copper, Total	Quarterly
Lead, Total	Quarterly
Mercury, Total	Quarterly
Molybdenum, Total	Quarterly
Nickel, Total	Quarterly
Selenium, Total	Quarterly
Zinc, Total	Quarterly
Alkyl-lead	Quarterly
Tributyl tin	Quarterly
PCBs (Polychlorinated Biphenyls)	Quarterly
PCDD (Dioxins) and PCDF (Furans)	Quarterly
Hexachlorobenzene	Quarterly
Octachlorostyrene	Quarterly
Benzo(a)pyrene (PAH)	Quarterly
Benzo(a)anthracene (PAH)	Quarterly
Benzo(b)flurathene (PAH)	Quarterly
Benzo(g,h,i)perylene (PAH)	Quarterly
Perylene (PAH)	Quarterly
Phenrathene (PAH)	Quarterly
Dinitropyrene	Quarterly
1, 4-Dichlorobenzene	Quarterly
3, 3'-dichlorobenzidine	Quarterly
4,4"-methylnebis(2-chloraniline)	Quarterly
Xylene	Quarterly
Chloroform	Quarterly
Trichlorethelene (1,3-Trichlorethane)	Quarterly
Tetrachlorethelene(1,1,2,2-Tetrachlorethane)	Quarterly
Hexachlorocyclohexane (Lndane)	Quarterly
Total Phenoxy Acid Herbicides including 2,-4 D, and MCPA	Quarterly
Aldrin/dieldrin	Quarterly
Chlordane	Quarterly
Methoxychlor	Quarterly
Mirex	Quarterly
Toxaphene	Quarterly
DDT	Quarterly
Cresol, phenol	Quarterly
Phenols, Total	Quarterly
Pentachlorophenol (PCP)	Quarterly
Nonylphenol and its Ehtoxylates	Quarterly
Oil and Grease	Quarterly

Primary Purpose
Monitoring
On-line instrument Check
Process Control
Process Control/Removal Efficiencies
Product Check
Regulatory
Removal Efficiencies
Source Control