

SSTS Service Provider Task Analysis Subsurface Sewage Treatment System (SSTS) Program

Doc Type: Task Analysis

Service Provider Task Analysis

A specialty area task analysis document is an outline of job tasks that certified professionals must be able to competently complete. It is a working document that was developed and is periodically maintained by a steering committee of experts, which is validated and prioritized by a broader group of practicing professionals. It is the foundation of Minnesota's SSTS specialty area certification program and provides the basis for curriculum objectives and exam competencies. It includes tasks authorized by rule and those determined to be necessary to conduct authorized work in a safe and lawful manner. It is not meant to represent a required order of operations and should not be used as a procedural checklist.

Minn R. 7083.0780 subp. 1: Authorization. A licensed service provider business is authorized to measure scum and sludge depths for the accumulation of solids; identify problems related to sewage tanks, baffles, effluent screens, maintenance hole covers, extensions, and pumps and make the repairs; evaluate sewage tanks, dosing chambers, distribution devices, valve boxes, or drop boxes for leakage; and clean supply pipes and distribution pipes. Service provider businesses are also authorized to assess, adjust, and service systems for proper operation; take, preserve, store, and ship samples for analysis; interpret sampling results and report results for an SSTS; and operate sewage collections systems discharging to an SSTS.

Minn R. 7083.0780 subp. 2: Responsibilities. Service provider licensees must: (A) report sampling results, operational observations, system adjustments, and other management activities in compliance with local ordinances, management plans, or operating permit requirements; and (B) observe and provide written reports of any noncompliance to the system owner and the local unit of government within 30 days.

Minn R. 7083.0780 subp.3: Certified Service Providers. Certified service providers must provide proper training, daily review of work, and periodic observation of work conducted by noncertified individuals. Certified service providers are responsible for conducting or supervising: (A) the measurement of scum and sludge depths for the accumulation of solids; (B) the making of sensory observations if nondomestic wastes have been discharged into the system; (C) the identification of problems and watertightness related to sewage tanks; and (D) the assessment of the condition of baffles, effluent screens, maintenance hole covers, and extensions.

Minn R. 7083.0780 subp.4: Certified Service Providers. Certified service providers must personally: (A) assess the operational status and system performance by sampling, measuring, and observing in compliance with the management plan or operating permit; (B) preserve, store, and ship samples for analysis and interpret sampling results; (C) adjust, repair, or replace components to bring the system into proper operational status; and (E) complete and submit any necessary reporting to the system owner and the local unit of government.

١.	Partici	pate in ce	ertification program
	I.A	Comple	te training
	I.B	Pass ce	artification exam
	I.C	Apply fo	pr certification
	I.D	Comple	te continuing education
II.	Obtair	Service	Provider business license
	II.A	Apply fo	or a business license
		II.A.1	Employ a Designated Certified Individual (DCI)
		II.A.2	Maintain appropriate SSTS surety bond and general liability insurance
		II.A.3	Remit appropriate business license fee
	II.B	Renew	business license
III.	Comm	nunicate v	vith clients, colleagues, and authorities
	III.A	Contac	local unit of government program with SSTS jurisdiction
		III.A.1	Obtain design report, as-built drawing, management plan, operating permit, past service records, and other pertinent site documentation

	III.A.2	Be knowledgeable of repair, replacement, and upgrade requirements in local ordinances
	III.A.3	Determine compliance and management expectations from local authority
	III.A.4	Establish reporting protocol for compliance management activities
III.B	Access	resources to identify and reconcile conflicts and concerns
	III.B.1	Contact Minnesota Pollution Control Agency representative
	III.B.2	Contact Minnesota Onsite Wastewater Association representative
	III.B.3	Contact SSTS Advisory Committee representative
	III.B.4	Contact University of Minnesota Onsite Sewage Treatment Program
	III.B.5	Contact Minnesota Department of Health (MDH) well program representative
III.C	Properly	delegate work between certified and noncertified workers
	III.C.1	Provide proper training, daily work review, and periodic work observation of noncertified individuals
	III.C.2	Ensure Designated Certified Individual (DCI) personally conducts tasks as specified in rule
III.D	Prepare	to conduct a service visit
	III.D.1	Alert Gopher State One Call
	III.D.2	Establish contact with a certified laboratory
	III.D.3	Speak with owner about system, use, and concerns
		Plan management activities from local program requirements, operating permit requirements, management plan, and
	III.D.4	system service history Log and load vehicle with necessary tools, equipment, personal protective equipment, existing records, and operational
	III.D.5	checklists to complete
	III.D.6	Educate owner about management activities, management frequency, and best practices
V. Condu	ıct prelimir	nary assessment
IV.A	If existin	isting documentation, complete system description g documentation is unavailable, contact component manufacturer and complete system description forms (Form 1-1) from Service Provider Manual at first visit
	IV.B.1	Record facility details
	IV.B.2	Record site details
	IV.B.3	Complete holding tank description
	IV.B.4	Complete septic tank description
	IV.B.5	Complete flow equalization tank description
	IV.B.6	Complete dosing pump tank description
	IV.B.7	
		Complete aerobic treatment unit (ATU) description
	IV.B.8	Complete single pass filter description
	IV.B.9	Complete recirculating filter description
	IV.B.10	Complete constructed wetland description
	IV.B.11	Complete disinfection unit description
	IV.B.12	Complete gravity distribution description
	IV.B.13	Complete pressurized drainfield description
	IV.B.14	Complete pressure mound distribution description
	IV.B.15	Complete drip distribution description
_		Sketch system
IV.C	and Hyd	stem serves an other establishment, complete a Commercial Wastewater Source Evaluation from <u>CIDWT High Strength</u> Iraulic Loading Manual
	IV.C.1	Document facility operation
	IV.C.2	Document water use habits

		N/ A A	
+		IV.C.3	Document onsite wastewater treatment system details
IV.	'.D		e system evaluation (Form 1-2) from <u>CIDWT Service Provider Manual</u>
		IV.D.1	Determine design flow
_		IV.D.2	Determine actual flow to system
IV.	.Ε		e site assessment (Form 4-1) from CIDWT Service Provider Manual
IV	′.F	Determin	ne if any improvements or upgrades to system are needed to allow for necessary service activities
IV	.G	Determin	ne and perform if any compliance management activities are overdue
IV	′.H	Evaluate	risks to develop or modify necessary service activities and frequencies
IV.	'.I	Create a	service contract with customer
Co V.		Use ava	visit according to operating permit or management plan requirements and system needs ilable operational checklists from the <u>CIDWT Service Provider Manual</u> to guide and record routine operation and ance on system components. Identifying each as acceptable or unacceptable
		V.A.1	Assess and/or certify sewage tank(s) as structurally sound and watertight
		V.A.2	Assess and/or certify maintenance hole risers and covers as structurally sound and safe
		V.A.3	Assess system operation based on use and design
		V.A.4	Assess, operate, and coordinate maintenance on holding tank (Form 5-1)
		V.A.5	Assess, operate, and coordinate maintenance on grease trap (Form 5-2)
		V.A.6	Assess, operate, and coordinate maintenance on septic tank (Form 5-2)
		V.A.7	Assess, operate, and coordinate maintenance on pump tank (Form 6-1)
		V.A.8	Assess, operate, and maintain demand-dosed pump/control system (Form 6-2)
		V.A.9	Assess, operate, and maintain time-dosed pump/control system (Form 6-3)
		V.A.10	Assess, operate, and maintain gravity distribution (Form 8-1)
		V.A.11	Assess, operate, and maintain pressure distribution (Form 8-3)
		V.A.12	Assess, operate, and maintain at-grades & mounds (Form 8-4a)
		V.A.13	Assess, operate, and maintain bottomless peat filter (Form 8-4b)
		V.A.14	Assess, operate, and maintain drip distribution (Form 8-5)
		V.A.15	Assess, operate, and maintain aerobic treatment unit (Form 7-2)
			V.A.15.1 Coordinate with Maintainer how and when to pump aerobic treatment unit tanks
		V.A.16	Assess, operate, and maintain media filter (Form 7-1)
		V.A.17	Assess, operate, and maintain constructed wetland (Form 7-3)
+		V.A.18	Assess, operate, and maintain chlorination disinfection unit (Form 7-5)
+		V.A.19	Assess, operate, and maintain UV disinfection unit (Form 7-6)
+		V.A.20	Assess, operate, and coordinate maintenance on privy
+		V.A.21	Assess, operate, and maintain building sewer, collection system, and supply pipes
+			V.A.21.A Evaluate flow and Inflow/Infiltration
+			V.A.21.B Assess, operate, and maintain gravity piping
+			V.A.21.C Assess, operate, and maintain gravity piping V.A.21.C Assess, operate, and maintain pressure piping
+		V.A.22	Assess, operate, and maintain pressure piping Assess, operate, and maintain alarms, floats, sensors, timers, controls, and flow measurement device
+			
+		V.A.23	Assess, operate, and maintain water table monitoring device(s)
+		V.A.24	Assess and operate monitoring well(s)
+			Assess, operate, and coordinate maintenance on Type V SSTS
V.	В	Complet	e system monitoring to meet regulatory operational requirements

		V.B.1.A	Preserve, store, and ship samples according to certified laboratory standards
		V.B.1.B	Record chain of custody
	V.B.2		eld tests as needed, including but not limited to effluent odor, color, temperature, DO, pH, scum and sludge ion, settleability, squirt height, and water table level
	V.B.3	Calculate a	actual flow rate
	V.B.4	Interpret fie	eld test and lab sample results
	V.B.5	If field sam	ple results unacceptable, troubleshoot system operation and employ contingency plan from operating permit
V.C	Troubles	shoot (identi	ify cause of malfunction) system components that are deemed unacceptable
	V.C.1	Troublesho	pot holding tank
	V.C.2	Troublesho	pot grease trap
	V.C.3	Troublesho	pot septic tank
	V.C.4	Troublesho	pot pump tank
	V.C.5	Troublesho	pot demand-dosed pump/control system
	V.C.6	Troublesho	pot time-dosed pump/control system
	V.C.7	Troublesho	pot gravity distribution
	V.C.8	Troublesho	pot pressure distribution
	V.C.9	Troublesho	pot at-grades & mounds
	V.C.10		pot bottomless peat filter
	V.C.11	Troublesho	bot drip distribution
	V.C.12		pot aerobic treatment unit
	V.C.13	Troublesho	pot media filter
	V.C.14	Troublesho	pot constructed wetland
	V.C.15		pot chlorination disinfection unit
	V.C.16	Troublesho	pot UV disinfection unit
	V.C.17	Troublesho	
	V.C.18		bot building sewer, collection system, and supply pipe
		V.C.18.A	Troubleshoot gravity piping
			Troubleshoot pressure piping
	V.C.19		pot alarms, floats, sensors, timers, controls, and flow measurement device
	V.C.20		bot water table monitoring device(s)
	V.C.21		bot monitoring well(s)
	V.C.22		bot Type V SSTS
V.D		1	nent, repair, replacement, or upgrade is recommended or corrective action is required
V.D	Determi		es outside of scope of practice to appropriately licensed designer, installer, maintainer, inspector, electrician,
	V.D.1	plumber, o	r other licensed professional
	V.D.2	Comply wit	th repair, replacement, remediation, upgrade, and corrective action requirements in local ordinances
	V.D.3	Properly at	bandon system with no future intent for use
		V.D.3.A	Coordinate proper tank abandonment
		V.D.3.B	Properly dispose or cover contaminated materials
		V.D.3.C	Complete, sign, and submit a record of abandonment to local program within 90 days
	V.D.4	Repair, rep	place, or upgrade maintenance hole riser and cover
	V.D.5	Repair, rep	place, or upgrade sewage tank baffle(s)
	V.D.6	Repair, rep	place, or upgrade sewage tank effluent screen

	V.D.7 V.D.8 V.D.9	Repair, replace, or upgrade sewage tank inspection pipe Adjust, repair, or replace sewage pump
	V.D.9	
		Adjust, repair, or replace siphon
	V.D.10	Adjust or repair at-grades & mounds
	V.D.11	Adjust or repair peat filter and replace media
	V.D.12	Adjust or repair drip distribution
	V.D.13	Adjust or repair aerobic treatment unit
	V.D.14	Adjust or repair media filter
	V.D.15	Adjust or repair constructed wetland and replace media and manage vegetation
	V.D.16	Adjust or repair chlorination disinfection unit and add chlorine
	V.D.17	Adjust or repair UV disinfection unit and replace bulbs
	V.D.18	Adjust or repair privy
	V.D.19	Steam or jet building sewer, collection system, supply pipe, and distribution system
	V.D.20	Adjust, repair, replace, or upgrade alarms, floats, sensors, timers, controls, and flow measurement device
	V.D.21	Adjust or repair water table monitoring device
	V.D.22	Notify MDH and licensed well contractor if monitoring well is in need of adjustment, repair, replacement, upgrade, or corrective action
	V.D.23	Notify appropriately licensed AELSLAGID professional if Type V is in need of adjustment, repair, replacement, upgrade, o corrective action
V.E	Comple	te service visit
	V.E.1	Close and secure tank(s) and other components
	V.E.2	Restore property
	V.E.3	Ensure all controls are restored to proper operational settings
	V.E.4	Adjust recommended service activities and frequencies from service activity results
	V.E.5	Notify owner of necessary follow-up, timelines, and next visit
/I. Keep,		and share adequate records and reports
/I. Keep, VI.A	, maintain,	
	, maintain, Deem o Record local ord	and share adequate records and reports verall system condition as acceptable or unacceptable and report sampling results, operational observations, system adjustments, and management activities in compliance with
VI.A	, maintain, Deem o Record local oro authority	and share adequate records and reports verall system condition as acceptable or unacceptable and report sampling results, operational observations, system adjustments, and management activities in compliance with linance, management plan, operating permit, or monitoring and mitigation plan requirements, providing copies to permitting
VI.A VI.B	, maintain, Deem o Record local ord authority Provide	and share adequate records and reports verall system condition as acceptable or unacceptable and report sampling results, operational observations, system adjustments, and management activities in compliance with dinance, management plan, operating permit, or monitoring and mitigation plan requirements, providing copies to permitting y and system owner

	Subsurface Sewage Tre	eatme	nt System Professional	Need	-to-Know: Service Provider
Minnesota Control A		A. Co	omplete Training		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
1 2	Complete Introduction to Onsite Systems Complete Service Provider Course	2 3	MPCA Requirements 7083.1020 Subp.2.A 7083.1030 Subp.1.A 7083.1030 Subp.1.B 7083.1030 Subp.2	Attitudes	
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks
			pg 1		

	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
Minnesota Control A		B. Pa	ass Certification Exam		
1	List sequenced order of steps to complete the master task Pass Introduction to Onsite Systems Exam Pass Service Provider Exam	2	Identify knowledge necessary to complete the subtasks MPCA Requirements 7083.1020 Subp.2.B 7083.1040 Subp.1 3 7083.1040 Subp.3 Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks
			py z		

Minnesota P		•		atment System Professiona	I Neec	I-to-Know: Service Provide
Control Ag		C. A	٩p	ly for Certification		
	List sequenced order of steps to complete			Identify knowledge necessary to		Describe how you must behave to
	the master task			complete the subtasks		complete the subtasks
1	Complete MPCA Form R	1		MPCA Requirements		
2	Submit list of passed exams		1	7080.1670	S	
3	Submit list of completed training courses		2	7083.0730 Subp.A	Attitude	
			3	7083.0730 Subp.B		
			4	7083.0730 Subp.C	t L	
			5	7083.0730 Subp.3.A	Ţ.	
			6	7083.0730 Subp.3.B	1	
			7	7083.0730 Subp.3.C	1	
			8	7083.0730 Subp.3.D		
			9	7083.0780 Subp.4.A		
			10	7083.0780 Subp.4.B		Identify the skills necessary for
			11	7083.0780 Subp.4.C		interacting with other people in orde
			12	7083.0780 Subp.4.D	-	to complete the subtasks
				7083.0780 Subp.4.E	-	
		-		7083.1010		
		-	15	7083.1020 Subp.1.H		
		-		7083.1020 Subp.2.A		
			17	7083.1020 Subp.2.B		
			18	· · · · · · · · · · · · · · · · · · ·		
				· · · · · · · · · · · · · · · · · · ·		
				7083.1020 Subp.3		
			21	7083.1020 Subp.4		
			22	7083.1040 Subp.2		
		-		7083.2020 Subp.2.A		
		-		7083.2020 Subp.2.B		
			25	7083.2020 Subp.2.C		
				7083.2020 Subp.2.D		
				7083.2020 Subp.2.E		
				7083.2020 Subp.3.A		
S		e e		7083.2020 Subp.3.B		
Ň.		5		· · ·		

()		20	7083.2020 Subp.3.C		
Ц.	 U U	30	7003.2020 Subp.3.C		
		31	7083.2020 Subp.3.D	6	
Ö	\leq	32	7083.2020 Subp.4.A	<u> </u>	
Subtas	Knowlec	33	7083.2020 Subp.4.B 7083.2020 Subp.4.C 7083.2020 Subp.6	Skills	
	Č	34	7083.2020 Subp.4.C		
0)	$\overline{\mathbf{\nabla}}$	35	7083.2020 Subp.6		
	_			ש	
			Learning Objectives	Ĉ	
			Learning Objectives	0	
				လ	
				0	
				ă	
				Ĵ	
				Interpersonal	

	Subsurface Se	wage	e Treatment System Professiona	Need	d-to-Know: Service Provider
Minnesota I Control A		D. C	omplete Continuing Education		
1	List sequenced order of steps to complete the master task Complete 12 hours (at least 6 Direct) of		Identify knowledge necessary to complete the subtasks MPCA Requirements	-	Describe how you must behave to complete the subtasks
	continuing education training related to SSTS every three years		1 7083.1020 Subp.2.D 2 7083.1040 Subp.2 3 7083.1060 Subp.1.A	es	
			4 7083.1060 Subp.1.C 5 7083.1060 Subp.1.D 6 7083.1060 Subp.1.E 7 7083.1060 Subp.2	Attitudes	
(0)			Learning Objectives	A	
Subtasks		Knowledge			Identify the skills necessary for interacting with other people in order
Subt		Nou		Skills	to complete the subtasks
		\mathbf{X}			
				Interpersonal	
				terp.	
				-	

Ser.	Subsurface Sewa	age Tre	atment System Professiona	I Need	-to-Know: Service Provider
	a Pollution Agency	II. Obta	ain Service Provider Busines	s Lice	nse
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
Δ	Complete Application		MPCA Requirements	-	
1	Complete License Application Form	1	7080.1670	S	
2	Submit Professional Surety Bond & Surety		7083.0700 Subp.1.A	$\underline{\Theta}$	
2	Company Power of Attorney	3	7083.0700 Subp.1.B	Attitude	
3	Submit Certificate of General Liability Insurance	4	7083.0700 Subp.1.C	1	
Ŭ		5	7083.0700 Subp.1.D	Ē	
4	Submit Workers Compensation Insurance or	6	7083.0700 Subp.1.E	T	
•	Complete Letter of Exemption	7	7083.0700 Subp.1.F	4	
5	Submit License Fee	8	7083.0700 Subp.1.G	-	
6	Submit Certificate of Employment for	9	7083.0700 Subp.1.H	-	
Ũ	Designated Certified Professional	•	7083.0700 Subp.2	-	
В	Submit Renewal & Fee		7083.0710	-	
_			7083.0720 Subp.A	-	
			7083.0720 Subp.B	-	
			7083.0720 Subp.C	-	
			7083.0720 Subp.D	-	
			7083.0720 Subp.E	-	
			7083.0720 Subp.F(1)	-	
			7083.0720 Subp.F(2)	-	
			7083.0720 Subp.F(3)	-	
			7083.0720 Subp.G	-	
			7083.0780 Subp.1	-	
		22	7083.0780 Subp.2.A		Identify the skills necessary for
			7083.0780 Subp.2.B	-	interacting with other people in order
			7083.0780 Subp.2.C	-	to complete the subtasks
			7083.0780 Subp.3.A	-	
			7083.0780 Subp.3.B		
			7083.0780 Subp.3.C		
			7083.0780 Subp.3.D		
			7083.0780 Subp.4.A		

30 7083.0780 Subp.4.B 31 7083.0780 Subp.4.C 32 7083.0780 Subp.4.D 33 7083.0780 Subp.4.E 34 7083.0800 Subp.A 35 7083.0800 Subp.A 36 7083.0800 Subp.A 37 7083.0800 Subp.A 38 7083.0800 Subp.A 39 7083.0900 Subp.1.A 39 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.3 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
32 7083.0780 Subp.4.D 33 7083.0780 Subp.4.E 34 7083.0800 Subp.A 35 7083.0800 Subp.B 36 7083.0900 Subp.1.A 38 7083.0900 Subp.1.A 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
33 7083.0780 Subp.4.E 34 7083.0800 Subp.A 35 7083.0800 Subp.B 36 7083.0800 Subp.C 37 7083.0900 Subp.1.A 38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
34 7083.0800 Subp.A 35 7083.0800 Subp.B 36 7083.0800 Subp.C 37 7083.0900 Subp.1.A 38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
35 7083.0800 Subp.B 36 7083.0800 Subp.C 37 7083.0900 Subp.1.A 38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
36 7083.0800 Subp.C 37 7083.0900 Subp.1.A 38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
37 7083.0900 Subp.1.A 38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
38 7083.0900 Subp.1.B 39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
39 7083.0900 Subp.1.C 40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
40 7083.0900 Subp.2 41 7083.0900 Subp.3 42 7083.0900 Subp.4	
41 7083.0900 Subp.3 42 7083.0900 Subp.4	
42 7083.0900 Subp.4	
43 7083 0900 Subp 5	
44 7083.0900 Subp.6	
45 7083.1000 Subp.1.A	
Ú 46 7083.1000 Subp.1.B	
O 47 7083.1000 Subp.1.C	
48 7083.1000 Subp.1.D	
System 47 7083.1000 Subp.1.C 48 7083.1000 Subp.1.D 49 7083.1000 Subp.1.E 50 7083.1000 Subp.1.F 51 7083.1000 Subp.1.G 52 7083.1000 Subp.2.A 53 7083.1000 Subp.2.B	
50 7083.1000 Subp.1.F	
50 7083.1000 Subp.1.F 51 7083.1000 Subp.1.G 7083.1000 Subp.2.A 7083.1000 Subp.2.A	
5 2 7083.1000 Subp.2.A	
55 7083.1000 Subp.4	
56 7083.1000 Subp.5 0	
56 7083.1000 Subp.5 57 7083.2020 Subp.1.A 58 7083.2020 Subp.1.B 59 7083.2020 Subp.1.C	
58 7083.2020 Subp.1.B	
59 7083.2020 Subp.1.C	
60 7083.2020 Subp.1.D	
61 7083.2020 Subp.1.E	
62 7083.2020 Subp.1.F	
63 7083.2020 Subp.1.G	
64 7083.2020 Subp.3.A	
60 7083.2020 Subp.1.D IC 61 7083.2020 Subp.1.E IC 62 7083.2020 Subp.1.F IC 63 7083.2020 Subp.1.G IC 64 7083.2020 Subp.3.A IC 65 7083.2020 Subp.3.B IC	

66 7083.2020 Subp.3.C	<u></u>
66 7083.2020 Subp.3.C 67 7083.2020 Subp.3.D 68 7083.2020 Subp.4.A 69 7083.2020 Subp.4.B 70 7083.2020 Subp.4.C 71 7083.2020 Subp.6	-
68 7083.2020 Subp.4.A	
69 7083.2020 Subp.4.B	
70 7083.2020 Subp.4.C	
71 7083.2020 Subp.6	
pg 8	

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Control		A. Co	ommunicate with clients, collea	igues, a	and authorities	
1	List sequenced order of steps to complete the master task Contact local unit of government		Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks	
	program with SSTS jurisdiction Access resources to identify and reconcile conflicts and concerns		Learning Objectives	Se		
	Properly delegate work between certified and noncertified workers Prepare to conduct a service visit			Attitudes		
				Atti		
sks		dge				
Subtasks		Knowledge		S	Identify the skills necessary for interacting with other people in order to complete the subtasks	
0,		\mathbf{X}		al Skills		
				Interpersonal		
				Interp		

	1	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	A.Contact local unit of government program with SSTS jurisdiction						
		List sequenced order of steps to complete the master task			Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
		Identify local regulations			MPCA Requirements		
	2	Access management plan or monitoring &			7080.1200		
	2	mitigation plan Access past monitoring reports			7080.1500 subp.4(C) 7080.2430		
		Identify management plan or monitoring &		- 3 ⊿	7080.2430 7080.2150 subp.4	S	
	-	mitigation plan requirements		-	7000.2100 3000.4	Ű	
	5	Identify Nitrogen reduction requirement			Learning Objectives	ŏ	
		If no plan exists, contact local unit of		1	Identify types of permitting authorities	Attitud	
		government				it.	
		Access permit records				H	
		Access as-built records	Φ			\triangleleft	
S S	9	Be knowledgable of various repair, replacem	Ō)			
		Determine compliance and management ex	Q				
ы Эй		Establish reporting protocol for compliance r	<u>0</u>				
)t			2				
4			б				
Subtasks			Knowle				Identify the skills necessary for
			\mathbf{X}			S	interacting with other people in order
							to complete the subtasks
						Skills	
						a	
						SC SC	
						e	
						ă	
						er	
						nterpersonal	
						—	

Subsurface Se	wage Treatment System Professional	Need
Minnesota Pollution Control Agency	B. Access resources to identify and re	econci
System System	Identify knowledge necessary to complete the subtasks MPCA Requirements 1 2 3 4 Learning Objectives 1	Attitudes
		Interpersonal Skills

-to-Know: Service Provider
ile conflicts and concerns
Describe how you must behave to complete the subtasks
Identify the skills necessary for interacting with other people in order to complete the subtasks

5	Subsurface Se	wage	Treatment System Professional	Need
	a Pollution Agency	C. Pr	operly delegate work between c	ertified
	List sequenced order of steps to complete the master task Provide proper training, daily work review, and periodic work observation of noncertified Ensure DCI personally conducts tasks as specified in rule	Knowledge		Attitudes
				Interpersonal Skills

-to-Know: Service Provider
d and noncertified workers
Describe how you must behave to complete the subtasks
Identify the skills necessary for
interacting with other people in order
to complete the subtasks

J.	Subsurface Se	wage	Treatment System Professional	Need
Minnesota Control		D. Pr	epare to conduct a service visit	
2 3 4 5	List sequenced order of steps to complete the master task Alert Gopher State One call Speak with owner about system, use, and concerns Plan management activities from service history, management plan, and operating permit requirements Log and load vehicle with necessary tools, equipment, existing records, and operational checklists to complete Educate owner about management activities, management frequency, and best practices Determine if any improvements or upgrades to system are needed to ensure continued compliance	Knowledge	Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes
				Interpersonal Skills

b

-to-Know: Service Provider
Describe how you must behave to complete the subtasks
Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	Minnesota Pollution Control Agency J. Prepare to conduct a service visit						
	List sequenced order of steps to complete the master task Gather system evaluation form Gather required system operational checklists Gather suggested tools for operation and maintenance service visits (Appendix C) Gather additional information Copies of Previous Inspections	1	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.2000 subp.E Learning Objectives Identify suggested tools for operation and maintenance service visits (Appendix C) Recognize the hazards associated with	Attitudes	Describe how you must behave to complete the subtasks		
Subtasks	b Locator Map Identifying Site Location c Item to Document Your Presence at the Site d Permit Files	3 4 0 4 0 5 0 6 7 0 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	wastewater and wastewater systems Identify safe work habits Identify safety equipment required to prevent injuries during O&M service visits List the immunizations recommended for professionals working around wastewater Explain the meaning of safety management Describe the causes of accidents and give examples of each	Attit			
Sub			List practices that demonstrate good personal hygiene	Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks		

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider							
	A. Using documentation, complete system description							
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks		
		Complete Form 1-1. System Description: Section B. System Documentation	1	MPCA Requirements 7080.2430	S			
	b	Record Date of Installation Record Installer's Contact Information Record Installer's License Number		Learning Objectives	de			
	d	Record Designer's Contact Information Record Designer's License Number			Attitude			
	f	Record Previous Service Provider's Contact Information			At			
0	-	Record Previous Service Provider's License Number						
Subtasks	h	Record Design flow (gallons per day)	Knowledge			Identify the skills necessary for interacting with other people in order to complete the subtasks		
Sub			<nov< td=""><td></td><td>Skills</td><td></td></nov<>		Skills			
					-			
					Interpersonal			
					nterp			
					-			

(4	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	ota Pollution ol Agency		no documentation available, hav stered ISTS Professional or Con	•	•		
	List sequenced order of steps to complete the master task Complete Form 1.1 System Description: Section D. No System Documentation Available	edge	Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks		
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks		

	(4	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider		
	Minnesota Pollution 1. Record facility details							
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks		
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements	Se			
	i	Available Record Number of Bedrooms		Learning Objectives	€pr			
	ii iii	Record Square Footage of Facility Record Number of Current Occupants			Attitude			
	iv v	Record Design Strength of Biological Oxygen Demand in Milligrams per Liter			At			
	vi	Record Design Strength of Total Suspended Solids in Milligrams per Liter	e			Identify the skills necessary for		
ubtasks		Record Design Strength of Fats, Oils & Grease in Milligrams per Liter	g			interacting with other people in order		
tas		Record Type of Water Supply If Private Water Supply, Record Lateral	/le		6			
qn		Distance from Groundwater Well to Water Supply in Feet	Knowled		Skills			
လ	х	If Private Water Supply, Record Lateral Distance from Spring to Water Supply in Ft	КЛ		_			
	xi	If Private Water Supply, Record Lateral Distance from Surface Water to Water Supply in Feet			nterpersona			
		Record Presence of Garbage Disposal			el			
	xiii	Record Use of Water Softener, Water Treatment Chemicals or other Water Treatment Devices			nterp			
	xiv	Record History of Facility Remodeling Since Original Construction			l			

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
	esota Pollution htrol Agency	2	. Record site details		
i ii ii iv v	List sequenced order of steps to complete the master task Complete Form 1-1. System Description: Section D. No System Documentation Available Describe Landscape Position Determine Type of Drainage Record Presence of and Type of constructed drainage system Describe Vegetation Record Presence of Monitoring Well	dge	Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
Minn Co	esota Pollution ntrol Agency	3	. Complete holding tank descrip	tion	
i i v v	List sequenced order of steps to complete the master task Complete Form 1-1. System Description: Section D. No System Documentation Available i Record Capacity in Gallons i Record Tank Material ii Record Tank Material ii Record Tank Manufacturer v Record Presence of Surface Access v Record GPS Location ii Record Presence of and Type of Alarm		Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
Minnesota Pollution Control Agency	4	. Complete septic tank description	on	
	Knowledge	Complete septic tank description Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Interpersonal Skills Attitudes u	Describe how you must behave to complete the subtasks

	(4	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		ita Pollution ol Agency	5	. Complete flow equalization tan	k des	cription
		List sequenced order of steps to complete the master task Complete Form 1-1. System Description:		Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks
	а	Section D. No System Documentation		· · · · · · · · · · · · · · · · · · ·	S	
		Available Record Capacity in Gallons		Learning Objectives	Ð	
		Record Tank Material			р	
	iii	Record Presence of Surface Access			itu	
		Record GIS Location Record Presence of Pump Tank			Attitud	
	v	If Pump Tank Present, Record Tank			\triangleleft	
	VI	Manufacturer				
0	vii	Record Presence of Pump	Je			
ž	viii	If Pump Present, Record Manufacturer, Model & Horsepower	$\frac{2}{5}$			
ubtasks	ix	If Pump Present, Record Dose Frequency	Knowledg			Identify the skills necessary for interacting with other people in order
Sta		in Doses per Day	\geq		S	to complete the subtasks
п	х	If Pump Present, Record Dose Interval in Seconds per Dose	Ó			· · · · ·
N		If Pump Present, Record Dose Volume in	С С		Skil	
	xii	Record Control Panel Manufacturer &	X		0)	
		Model Record Presence of Separate Electrical			a	
	xiii	Circuits for Pump and Alarm			rsona	
		Record Electrical Breaker Size			S	
		Record Alarm Manufacturer Record Type of Sensor used for Alarm			С Ф	
		Describe Alarm Operation			ď	
					Interpe	
)t(

	(4	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		ota Pollution ol Agency	6	6. Complete dosing pump tank de	escrip	tion
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements	S	
		Available		Learning Objectives	Ð	
		Record Capacity in Gallons			Q	
	ii	Record Tank Material			n	
		Record Presence of Surface Access			Attitud	
		Record GIS Location			H	
	V	If Pump Tank Present, Record Manufacturer				
	vi	Record Presence of Pump			-	
		Describe Control Method	Φ		-	
S	viii	If Pump Present, Record Dose Frequency in	ð			Identify the skills necessary for
X		Doses per Day			-	interacting with other people in order
tasks	ix	Record Dose Interval in Seconds per Dose	Ð		10	to complete the subtasks
to	х	Record Dose Volume in Gallons per Dose	5		<u>S</u>	
Q	xi	Record Sensor Panel Manufacturer/Model	S			
Su		Record Presence of Separate Electrical Circuits for Pump and Alarm	Knowled		Skill	
•		Record Electrical Breaker Size	\mathbf{X}			
		Record Alarm Manufacturer			rsona	
	xv	Record Type of Sensor Used for Alarm				
	xvi	Describe Alarm Operation				
					nterpe	
					D	
					t T	
					-	

	E	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
		ta Pollution I Agency	7	7. Complete ATU description		
	i ii iii	List sequenced order of steps to complete the master task Complete Form 1-1. System Description: Section D. No System Documentation Available Record Treatment Method (Type of ATU) Record Capacity in Gallons per day Record Capacity in Capacity in Ibs BOD Record Material		Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
sks	v vi vii viii ix	Record Manufacturer & Model Record Product Serial Number Record Presence of Surface Access Record GIS Location Record Presence of Effluent / Tertiary Filter	agb		Atti	
Subtasks	x	Describe Sludge Return Method	Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	(*	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		ota Pollution ol Agency	8	. Complete single pass filter des	scripti	on
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements		
		Available		Learning Objectives	SS	
		Record Type of Media Record Media Depth in Inches			de	
		Describe Liner Material			ň	
	iv	Record Filter Size & Dimensions in Square Feet			Attitud	
	v	Record Type of Access			Ā	
		Describe Cover Material				
		Record Presence of Lid Insulation	Φ			
ks Ks	viii	Record Method of Distribution	D			
Т С	ix	Record Distribution Pipe Diameter in Inches	Knowled			
tas	x	Describe Method of Flow Control	lθ		-	Identify the skills necessary for
þ		If Orifice Used for Flow Control, Describe	3			interacting with other people in order
	xi	Position			Skills	to complete the subtasks
の	xii	Record Number of Flow Controls	5		Σ.	
	xiii	Record Squirt Height / Operating head in Inches	×		S	
		Record Presence of Clean Outs /			a	
	xiv	Inspection Ports			L U	
	XV	If Clean Outs / Inspection Ports Present,			SC	
	xvi	Record Presence of Clean Out Surface Access			nterpersonal	
	xvii	Describe Filtrate Collection System			jrp.	
		Operation			lt€	
		Record Presence of Forced Aeration				
	xix	Describe Forced Aeration Operation			_	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider							
		a Pollution Agency	g	0. Complete recirculating	filter c	lescription		
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks		
	а	Complete Form 1-1. System Description: Section D. No System Documentation Available		MPCA Requirements Learning Objectives	S			
	i ii iii	Record Type of Media Record Media Depth in Inches Describe Liner Material	-		nde			
	iv v	Describe Recirculation Method Record Filter Size & Dimensions in Square Feet			Attitude			
S		Record Type of Access Describe Cover Material Record Presence of Lid Insulation	ge					
ask	ix	Record Distribution Pipe Diameter in Inches	edç		-	Identify the skills necessary for		
Subtasks	x xi	Record Method of Flow Control If Orifice Used for Flow Control, Describe Position	Knowledge			interacting with other people in order to complete the subtasks		
S S	xii	Record Flow Control Diameter in Inches	С,		l ≣			
	xiii	Record Squirt Height / Operating Head in Inches	X		Skills			
	xiv	Record Presence of Clean Outs / Inspection Ports			nal			
	xv	If Clean Outs / Inspection Ports Present, Record Number			nterpersonal			
	xvi	Record Presence of Clean Out Surface Access	-		rpe			
	xvii 	Operation			nte			
		Record Presence of Forced Aeration	-					
	XIX	Describe Forced Aeration Operation						

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	rota Pollution rol Agency	1	10. Complete constructed wet	land c	lescription		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks		
	a Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements				
	Available i Record Type of Bed Media		Learning Objectives				
	i Record Number of Cells ii Record Media Depth in Inches			S S			
	 Record Water Depth in Inches Describe Liner Material 			pr			
	vi Describe Border Material ii Record Wetland Size & Dimensions in Square			Attitude			
١	Ft iii Record Wetland Length to Width Ratio			Ā			
	Record Distribution Pipe Diameter in In Record Method of Flow Control						
	i If Orifice Used for Flow Control, Describe Position			-			
-	ii Record Flow Control Diameter in Inches iii Record Number of Flow Controls						
-	iii Record Number of Flow Controls Record Squirt Height / Operating Head in Inches			_	Identify the skills necessary for interacting with other people in order		
>	Record Presence of Clean Outs / Inspection Ports			-	to complete the subtasks		
×	vi If Clean Outs / Inspection Ports Present, Record Number			_			
	vii Record Presence of Clean Out Surface Access						
	viji Record Surface Loading Rate in Gallons per Day per Square Feet						
x v	ix Describe Filtrate Collection System Operation	Je					
× >	x Record Presence of Vegetation	g					

Second Presence of Water Level Control Record Presence of Water Level Control If Water Level Control Present, Describe Operation			Interpersonal Skills			
		og 23				
	6	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
-------	------	---	---------------------	---	--------------	---
		ta Pollution ol Agency	1	1. Complete disinfection unit de	script	ion
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements		
		Available Determine Type of Disinfection Unit If Chlorine Tablet Used, Record		Learning Objectives	es	
		Manufacturer & Model If Chlorine Liquid Used, Record			tud	
		Manufacturer & Model If Ultraviolet Light Used, Record			Attitude	
6	v	Manufacturer & Model If Ozone Used, Record Manufacturer & Model	Je			
Isks		If Other Used, Describe Describe Disinfection Monitoring Locate	Knowledge			
btasl	viii	If Chlorine Used, Describe Type of Dechlorination	W le		-	Identify the skills necessary for interacting with other people in order
Su		If Chlorine Used, Record Dechlorination Manufacturer & Model	V		Skills	to complete the subtasks
	х	If Chlorine Used, Describe Dechlorination Monitoring Location	<u> </u>			
					sone	
					oers	
					nterpersonal	
					<u> </u>	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provide				
	esota Pollution htrol Agency	1	2. Complete gravity distribution	descri	ption
i ii ii v	List sequenced order of steps to complete the master task Complete Form 1-1. System Description: Section D. No System Documentation Available Record Distribution Type		Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	(4	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		ota Pollution ol Agency	1	3. Complete pressurized drainfie	eld de	escription
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements		
	i	Available Record Whether Pressurized Drainfield Is		Learning Objectives	es	
		Level Record Number of Zones			Attitud	
		Record Switching Method Among Zones Record Distribution Pipe Diameter in Inches			∆tti	
		Record Orifice Diameter in Inches Describe Orifice Orientation	d)			
sks	vii	Record Number of Orifices Record Squirt Height / Operating Head in	dge			
btask	ix	Inches Record Presence of Clean Outs /	Knowled			Identify the skills necessary for interacting with other people in order
Sub	x	Inspection Ports If Clean Outs / Inspection Ports Present. Record Number	No/		S	to complete the subtasks
	xi	Record Presence of Clean Out Surface Access	\mathbf{X}		Skills	
		Record Number of Trenches / Beds Record Trench / Bed Dimensions in			nal	
		Inches			erso	
					nterpersonal	
					Inte	

	(6	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		ta Pollution ol Agency	1	4. Complete pressure mound di	stribu	tion description
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements	S	
	i	Available Record Distribution Method		Learning Objectives	de	
	ii	Record Distribution Pipe Diameter in Inches			itu	
		Record Orifice Diameter in Inches Record Number of Orifices			Attitud	
		Record Squirt Height / Operating Head in Inches				
S	vi	Record Presence of Clean Outs / Inspection Ports	ge			Identify the skills necessary for
task	vii	If Clean Outs / Inspection Ports Present, Record Number				interacting with other people in order to complete the subtasks
bta		Record Presence of Clean Out Surface Access	Knowled		S	
Su		Record Number of Beds Record Bed Dimensions in Ft	D U		Skills	
•••			X			
					son	
					nterpersona	
					terp	
					<u>ב</u>	

	(*	Subsurface Se	wage	Treatment System Professional	Need	-to-Know: Service Provider
		ota Pollution ol Agency	1	5. Complete drip distribution des	scriptio	on
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	а	Complete Form 1-1. System Description: Section D. No System Documentation		MPCA Requirements	es	
		Available		Learning Objectives	ď	
		Record Type of Distribution Field			Attitude	
		Record Drip Tube Manufacturer & Model Record Type of Filtration			E	
		Record Filtration Manufacturer & Model			H	
		Record Method of Filter Cleaning			\triangleleft	
		Record Number of Zones				
	vii	If Multiple Zones, Describe Switching				
		Device	Ð			Identify the skills necessary for
tasks	viii	If Multiple Zones, Record Area of Each	Q			interacting with other people in order
S I		Zone in Square Feet	D D			to complete the subtasks
ö		Record Method of Field Flushing	Φ			
) t	х	Record Presence of Air Release / Vacuum	\geq		S	
4		Breaker	5		Ċ	
ပ်	XI	Record Air Release / Vacuum Breaker Manufacturer & Model	Knowled		Skills	
	xii	Record Presence of Inspection Ports	$\mathbf{\Sigma}$			
		If Inspection Ports Present, Describe			nterpersonal	
		Locations			ō	
					S	
					Ð	
					d d	
					θ	
					Ē	

Subsurface Se	wage	Treatment System Professional	Need	l-to-Know: Service Provider
esota Pollution htrol Agency	1	6. Sketch system		
List sequenced order of steps to complete the master task Complete Form 1-1. System Description: Section D. No System Documentation Available	Knowledge	Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Interpersonal Skills Attitudes	Describe how you must behave to complete the subtasks

Subsurface Sev	wage	Treatment System Professional	Need
Minnesota Pollution Control Agency	C	C. If system serves other establis	shmen
System List sequenced order of steps to complete the master task 1 Complete a Commercial Wastewater Source Evaluation from CIDWT High Strength and Hydraulic Loading Manual 2 Document facility operation 3 Document water use habits 4 Document onsite wastewater treatment system details	Knowledge	Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes
Subs	Mond		Interpersonal Skills

-to-Know: Service Provider

t...

Describe how you must behave to complete the subtasks

Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professiona	Nee	d-to-Know: Service Provider
	Minnesota Pollution Control Agency	D. Co	omplete system evaluation form	(1-2)	from CIDWT Manual
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
btasks	 1 Complete Form 1-2. System Evaluation: Part D. System Evaluation a Record Flow Estimation Method b If Using House Water Meter Reading, c Verify correct placement of meter d Calculate Estimated Gallons per Day = (Current Reading (Gallons) – Previous Reading (Gallons)) / Number of Days Between Readings e Calibrate pumps f If Using Pump Tank Control Meter Readings, Record from Form 6-2. Operational Checklist: Pump: Demand- Dosed System or Form 6-3. Operational Checklist: Pump: Timer-Dosed System ?? g If Using Discharge Line Meter, Record Reading in Gallons per Day?? h If Using Estimate Based on Number of Occupants, Record Number of People?? i If Using Estimate Based on Number of Occupants, Estimated Gallons per Day = 	2 3 4 1	MPCA Requirements 7080.1200 subp.2 7080.1550 subp.1 7080.1550 subp.2 7080.1860 Learning Objectives Define drainback Explain how drainback affects flow calculation	Attitudes	
	Number of People x (50 to 70) gallons per day per person j Shut off upstream pumps to estimate drainback k Verify pump gages are recording accurately l Identify other sources of wastewater entering system m Assess collection system n Talk to users o Verify collection & comp are watertight p Verify pump operating correctly q Compare flow values along treatment train			Interpersonal Skil	Identify the skills necessary for interacting with other people in order to complete the subtasks Report to client if ?

		Subsurface Se	ewa	age	Treatment System Professional	Nee	d-to-Know: Service Provider
		esota Pollution ntrol Agency	E. (Сс	onduct site assessment		
		List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to
		the master task			the subtasks		complete the subtasks
	А	Complete Form 4-1. Site Assessment			MPCA Requirements		
	1	Record details of current operation			7080.2450 subp.7		
	2	Deem surface water management as			7080.2000 subp.D		
		acceptable or unacceptable		С	7080.2150 subp.3(J)		
	3	Deem subsurface water management as			Insert component settling/erosion		
		acceptable or unacceptable				S	
	4	Deem system encroachment as acceptable			Learning Objectives	Ð	
		or unacceptable			Describe the influence of topography and	$\overline{\mathbf{O}}$	
	5	Deem vegetation and soils as acceptable		A	landscape position with regard to onsite	\Box	
		or unacceptable			wastewater treatment system function	ttitud	
	6	If applicable, deem groundwater monitoring	Φ	5	Describe the causes and effects of erosion	lt	
S		wells as acceptable or unacceptable			around onsite components and in the	\triangleleft	
Ň	а	Sample Groundwater, if required	dg	~	drainfield		
S	8	If applicable, deem observation	e O		Identify the proper grading and subsurface		
מ		well/piezometer as acceptable or			water management procedures for an		
d		unacceptable	3	>	onsite system		
Subtasks	а	Record Depth to Water, if required	NO	_ De	Explain the importance of keeping		
$\overline{\Omega}$	b	Sample Groundwater, if required	Ć		encroachments and sources of stormwater		
0,	9	Record additional comments		_	away from system components		
				_ F	Describe the purpose of vegetation over	kil	Identify the skills necessary for
				_	the drainfield	Ś	interacting with other people in order
					Explain the significance of dead vegetation,		to complete the subtasks
				F	excessive vegetation, large trees, and	onal	Inform home owner of issues arising
					roots in the drainfield	ü	from assessment before action is
				_	Identify the four elements that must be	0	taken
				G	present when a groundwater monitoring	်	
					well is required	e	
					Recognize changes in site conditions that	ð	
				H	indicate the need to complete site	J.	
					assessment again	nterpers	

S	ubsurface Sewage	Treatment System Professional	Need
Minnesota Pollution Control Agency	F. De	etermine required service activitie	es and
List sequenced order of the master		Identify knowledge necessary to complete the subtasks MPCA Requirements	
2 3 4		Learning Objectives	Attitudes
Isks	edge		Att
Subtasks	Knowledge		Interpersonal Skills

-to-Know: Service Provider
I frequencies from OP
Describe how you must behave to complete the subtasks
Identify the skills necessary for interacting with other people in order to complete the subtasks

	(Subsurface	e Sewa	ge	Treatment System Professional	Need
		sota Pollution			etermine if any compliance mana	-
	onti	trol Agency		nd f	urther evaluate risks to develop	or mo
		List sequenced order of steps to com the master task	plete		Identify knowledge necessary to complete the subtasks	
	1		_		MPCA Requirements	
	2					~
	3				Learning Objectives	Ū Ū
	4					Ō
	-					Attitudes
	-					\tt
	-					4
	-			>		-
¥S				<u>ת</u>		
Subtasks	-		Knowledge))		
ota	-			2		
np	-		6	5		
N N	-			-		S
			x	-		nterpersonal Skills
	-					S
	-					al al
	-					0 L
	-					STS
						J.
	-		-			ter
	-					
	-					

-to-Know: Service Provider
ent activities are overdue
dify service frequencies
Describe how you must behave to complete the subtasks
Identify the skills necessary for interacting with other people in order to complete the subtasks

	(A)	Subsurface Se	wage	Treatment System Professional	Need
	esota Pollution htrol Agency		F	I. Create a management agreen	nent w
1 2 3 4 S	2	nced order of steps to complete the master task	dge	Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes
Subtasks			Knowledge		Interpersonal Skills

-to-Know:	Service	Provider
-----------	---------	----------

ith customer

Describe how you must behave to complete the subtasks

Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider					
N	linnesota Pollution Control Agency	I. Det	termine if a variance is needed			
Subtasks	List sequenced order of steps to complete the master task	Knowledge	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1200 subp.3 Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks	
Su		Knc		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks	

Subsurface Sewage	Treatment System	Professional Need
-------------------	------------------	-------------------

Subsurface Sev	wage Treatment System Professional I	Need
Minnesota Pollution Control Agency	V. Conduct service visit	
List sequenced order of steps to complete the master task 1 Identify each component as acceptable or unacceptable 2 Assess, operate and maintain components per CIDWT operational checklists 3 Complete system monitoring to meet regulatory operational requirements according to certified laboratory standards 4 Troubleshoot (identify cause of malfunction) system components that are deemed unacceptable 5 Determine if adjustment, repair, replacement, or upgrade is recommended or corrective action is required 6 Complete service visit	Identify knowledge necessary to complete the subtasks MPCA Requirements Learning Objectives	Attitudes
		Interpersonal Skills

-to-Know: Service Provider
Describe how you must behave to
complete the subtasks
Identify the skills necessary for
interacting with other people in order
to complete the subtasks

		Subsurface Se	wage	Treatment System Professional	Need
Minnesota Pollution			1. Assess and certify sewage tank(s) a		
Cont	trol Agency		N	vatertight	
	List seque	enced order of steps to complete		Identify knowledge necessary to complete	
1		the master task	-	the subtasks MPCA Requirements	
				MFCA Requirements	
2				7082.0700 4 B 1	
				7080.1500 4 B	
3				Learning Objectives	S
					β
4					Attitudes
5					tit
6					1t
					P
			رە د		
S			ð		
x			Q		
ЭЙ (Ð		
ot			\geq		
Subtasks			Knowledge		
S			\mathbf{S}		
			×		Skills
					Σ.
					S
					a
					oersonal
					l Si
					e l
					nter
					<u> </u>
			-		

-to-Know: Service Provider
s structurally sound and
Describe how you must behave to complete the subtasks
Identify the skills necessary for interacting with other people in order to complete the subtasks

		Subsurface Se	wage	Treatment System Professional	Need
Minnesota Pollution 2. Assess an			. Assess and certify maintenand	e hole	
	trol Agency			tructurally sound and safe	
	List sequen	ced order of steps to complete	-	Identify knowledge necessary to complete	
		the master task		the subtasks	_
1				MPCA Requirements	
				7080.1500 4 A	-
				7082.0700 4 B 1	
				Learning Objectives	Attitudes
					itua
					Att
			Θ		
sko			gp		-
Subtasks			Knowledge		-
guç			0		
0)			Z		S
					Skills
					ersonal
					ers
					erp
					Inter

-to-Know: Service Provider
risers and covers as
Describe how you must behave to complete the subtasks
Identify the skills necessary for
interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need
	isota Pollution trol Agency	3	. Assess system operation base	d on ι
1	List sequenced order of steps to complete the master task	-	Identify knowledge necessary to complete the subtasks MPCA Requirements	
		-	7082.0700 4 B 4	
			Learning Objectives	Attitudes
				Atti
Subtasks		Knowledge		
Subt		Know		
				Skills
		-		oersonal
		-		nterpe

ta Kaavu Camiaa Bravidar
-to-Know: Service Provider
ise and design
Describe how you must behave to
complete the subtasks
Identify the skills necessary for
interacting with other people in order
to complete the subtasks

Minnesota Pollution Control Agency	ewage Treatment System Professional 4. Assess holding tank	Need	d-to-Know: Service Provider
List sequenced order of steps to complete the master task Complete Form 5.1 Operational Checklist: Holding Tank Record Details of Current Operation b Deem Conditions at Tank as Acceptable or Unacceptable c Describe Tank d Deem Tank Access as Acceptable or Unacceptable e Assess Tank Insulation f Deem Alarm as Acceptable or Unacceptable g Deem Current Tank Operating Conditions As Acceptable or Unacceptable i Measure liquid level relative to inlet ii Measure maximum liquid level of tank	Identify knowledge necessary to complete the subtasks MPCA Requirements 1 7080.1900 2 7080.1500 subp.4(A) 3 7080.1500 subp.4(C) 4 7080.1500 subp.4(C) 4 7080.1500 subp.5 5 7080.1500 subp.6 6 7080.1970 subp.6 7 7080.1970 subp.C(1) 9 7080.1970 subp.C(2) 10 7080.1970 subp.C(3) 11 7080.1970 subp.C(4) 12 7080.2000 subp.G 13 7080.2000 subp.H	Attitudes	Describe how you must behave to complete the subtasks
 iii Measure height at which alarm is activated as measured from invert of outlet h If Pumped, Deem Tank Structural Condition as Acceptable / Unacceptable i Record Future Holding Tank Pumping Recommendations j If Pumped, Record Details of Operation 	15 7080.2000 subp.K 16 7080.2010 subp.1(A) 17 7080.2010 subp.3(A)(2) 18 7080.2010 subp.A 19 7080.2010 subp.C 20 7080.2150 subp.3(B) 21 7080.2270 subp.10 22 7080.2270 subp.11 23 7080.2270 subp.8 24 7080.2270 subp.9 25 7080.2290 subp.B 26 7080.2290 subp.C 27 7080.2290 subp.E 28 7080.2290 subp.F		Identify the skills necessary for interacting with other people in order to complete the subtasks

S	S	30	7080.2450 subp.1		
ä	Θ	31	7080.2450 subp.2(A)		
Ť	\geq	32	7080.2450 subp.2(B)		
Subtas	owlea	33	7080.2450 subp.3(A)		
	2	24	7080.2450 subp.3(A)		
S	Ū.	34	7080.2450 subp.3(B)		
	Y	35	7080.2450 subp.3(C)		
			7080.2450 subp.5	S	
				=	
			Learning Objectives	Skills	
		1	Describe holding tanks		
			Describe the treatment processes that	a	
			occur in tanks		
			Explain the operational significance of a	SC	
			tank that is above or below normal	er	
		4	Describe the conditions that indicate a tank	Interpersonal	
			should be serviced	er	
				nt	
				—	

	ntrol Agency		sess, operate, and maintain grea		
	List sequenced order of steps to complete		Identify knowledge necessary to complete	•	Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	Complete Form 5.2 Operational Checklist:		MPCA Requirements		
	Septic, Trash & Processing Tanks		1 7080.1900	S	
а	Record Details of Current Operation		2 7080.1500 subp.4(A)		
b	Deem Conditions at Tank as Acceptable or		3 7080.1500 subp.4(C)	ð	
	Unacceptable		4 7080.1500 subp.5	Ĕ	
С	Describe Tank		5 7080.1500 subp.6	<u>i</u>	
d	Deem Tank Access as Acceptable or		6 7080.1970 subp.A	E	
	Unacceptable		7 7080.1970 subp.B	Attitude	
е	Assess Tank Insulation		8 7080.1970 subp.C(1)		
f	Deem Alarm as Acceptable or		9 7080.1970 subp.C(2)		
	Unacceptable		0 7080.1970 subp.C(3)		
g	Deem Current Tank Operating Conditions		1 7080.1970 subp.C(4)		
	as Acceptable or Unacceptable		2 7080.2000 subp.D		Identify the skills necessary for
i	Measure liquid level relative to outlet		3 7080.2000 subp.G		interacting with other people in orde
ii	Measure maximum liquid level of tank		4 7080.2000 subp.H		to complete the subtasks
iii	Measure height at which alarm is activated		5 7080.2000 subp.K		
	as measured from invert of inlet		6 7080.2010 subp.1(A)		
iv	Evaluate layers in tank		7 7080.2010 subp.3(A)(2)		
h	Record Future Tank Pumping		8 7080.2010 subp.A		
	Recommendation		9 7080.2010 subp.C		
i	Deem Condition of Baffles as Acceptable	2	0 7080.2150 subp.3(B)		
	or Unacceptable	2	1 7080.2270 subp.10		
j	Evaluate Effluent Screen	2	2 7080.2270 subp.11		
k	Clean Effluent Screen		3 7080.2270 subp.8		
1	If Pumped, Deem Tank Structural	2	4 7080.2270 subp.9		
	Condition as Acceptable or Unacceptable	2	5 7080.2290 subp.B		
m	If Pumped, Record Details of Operation	2	.6 7080.2290 subp.C	-	
n	If Required for Monitoring, Collect Lab		7 7080.2290 subp.D		
	Samples		8 7080.2290 subp.E		
			9 7080.2290 subp.F		
		\mathbf{U}	0 7080.2450 subp.1		
		<u>g</u>	7080.2450 subp.2(A)		

S		31	7080.2450 subp.2(B)		
ä		\mathbf{U}_{32}	7080.2450 subp.3(A)		
t		> 33	7080.2450 subp.3(B)		
Subtas			7080.2450 subp.3(C)		
С С			7080.2450 subp.5	Skills	
0)			7081.0290 Item B	X il	
	•	<u> </u>		S	
			Learning Objectives	Ē	
		1	Describe septic tanks	Ë	
			Compare and contrast holding tanks,	Interpersonal	
			septic tanks, trash tanks and processing	e L	
		3	Describe the treatment processes that	ď	
			occur in tanks	ē	
		4	Explain the operational significance of a	Ţ	
			tank that is above or below normal	—	
		5	Describe the function of an effluent screen		
			in a tank		
		6	Describe the use of a sludge judge and/or		
			other measuring device to determine the		
			depth of sludge and scum in a tank		
		7	Describe the conditions that indicate a tank		
			should be serviced		

		Sewage	e Treatment System Professiona	l Need	d-to-Know: Service Provider
	esota Pollution ntrol Agency	6. Ass	ess septic tank		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	Complete Form 5.2 Operational Checklist:		MPCA Requirements		
	Septic, Trash & Processing Tanks	1	7080.1900		
а	Record Details of Current Operation	2	7080.1500 subp.4(A)	es	
b	Deem Conditions at Tank as Acceptable or	3	7080.1500 subp.4(C)		
	Unacceptable	4	7080.1500 subp.5	Attitud	
С	Describe Tank	5	7080.1500 subp.6	t L	
d	Deem Tank Access as Acceptable or	6	7080.1970 subp.A	E	
	Unacceptable	7	7080.1970 subp.B		
е	Assess Tank Insulation	8	7080.1970 subp.C(1)		
f	Deem Alarm as Acceptable or	9	7080.1970 subp.C(2)		
	Unacceptable	10	7080.1970 subp.C(3)		
g	Deem Current Tank Operating Conditions	11	7080.1970 subp.C(4)		
_	as Acceptable or Unacceptable	12	7080.2000 subp.D		Identify the skills necessary for
i	Measure liquid level relative to outlet	13	7080.2000 subp.G		interacting with other people in order
ii	Measure maximum liquid level of tank	14	7080.2000 subp.H		to complete the subtasks
iii	Measure height at which alarm is activated	15	7080.2000 subp.K		
	as measured from invert of inlet		7080.2010 subp.1(A)		
iv	Evaluate layers in tank	17	7080.2010 subp.3(A)(2)		
	Record Future Tank Pumping	18	7080.2010 subp.A		
	Recommendation	19	7080.2010 subp.C		
i	Deem Condition of Baffles as Acceptable	20	7080.2150 subp.3(B)		
	or Unacceptable	21	7080.2270 subp.10		
j	Evaluate Effluent Screen	22	7080.2270 subp.11		
k	Clean Effluent Screen		7080.2270 subp.8		
I	If Pumped, Deem Tank Structural		7080.2270 subp.9		
	Condition as Acceptable or Unacceptable	25	7080.2290 subp.B		
m	If Pumped, Record Details of Operation	26	7080.2290 subp.C		
n	If Required for Monitoring, Collect Lab	27	7080.2290 subp.D		
	Samples	28	7080.2290 subp.E		
		ل 29	7080.2290 subp.F		
S		5 30	7080.2450 subp.1		
Ľ.		Ř	pg 38		

(31	7080.2450 subp.2(A)		
Э;			7080.2450 subp.2(A) 7080.2450 subp.2(B)		
to t	'	$\sum_{n=1}^{32}$			
Subtas		31 32 33 34 35	7080.2450 subp.3(A)		
n		O 34	7080.2450 subp.3(B)	S	
\mathcal{O}			7080.2450 subp.3(C)		
•••		$\mathbf{\mathbf{X}}^{36}$	7080.2450 subp.5	Skills	
				0	
			Learning Objectives	al	
		1	Describe septic tanks	n	
		2	Compare and contrast holding tanks,	SC	
			septic tanks, trash tanks and processing	er	
		3	Describe the treatment processes that	ă.	
			occur in tanks	e	
		4	Explain the operational significance of a	Interpersonal	
			tank that is above or below normal	—	
		5	Describe the function of an effluent screen		
		Ũ	in a tank		
		6	Describe the use of a sludge judge and/or		
		Ŭ	other measuring device to determine the		
			depth of sludge and scum in a tank		
		7	Describe the conditions that indicate a tank		
		1	should be serviced		
			pg 39		
			r 3 • •		

	nesota Pollution ontrol Agency	7. A	sse	ess pump tank		
	List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to
	the master task			the subtasks		complete the subtasks
1	Complete Form 6.1 Operational Checklist:			MPCA Requirements		
	Pump Tank		1	7080.1900		
а	Record Details of Current Operation		2	7080.1500 subp.4(A)		
b	Deem Conditions at Tank as Acceptable or		3	7080.1500 subp.4(C)		
	Unacceptable		4	7080.1500 subp.5		
с	Describe Tank		5	7080.1500 subp.6		
d	Deem Tank Access as Acceptable or		6	7080.1970 subp.A		
	Unacceptable		7	7080.1970 subp.B		
е	Assess Tank Insulation		8	7080.1970 subp.C(1)		
f	Deem Current Tank Operating Conditions		9	7080.1970 subp.C(2)		
	as Acceptable or Unacceptable		10	7080.1970 subp.C(3)		
i	Measure liquid level relative to outlet		11	7080.1970 subp.C(4)		
ii	Measure maximum liquid level of tank		12	7080.2000 subp.D		
iii	Measure height at which alarm is activated		13	7080.2000 subp.G		
	as measured from top of maximum liquid		14	7080.2000 subp.H		
	level		15	7080.2000 subp.K		
g	Deem Pump or Siphon as Acceptable or		16	7080.2010 subp.1(A)	\sim	
-	Unacceptable		17	7080.2010 subp.3(A)(2)	S	
h	Deem Discharge Assembly as Acceptable		18	7080.2010 subp.A	¥	
	or Unacceptable		19	7080.2010 subp.C	¥	
i	If Present, Deem Seal and Watertightness			7080.2100 subp.2(A)	Ļ	
	of Electrical Components as Acceptable or		21	7080.2100 subp.2(D)	÷.	
	Unacceptable		22	7080.2100 subp.2(E)	Attitude	
j	If Pumped, Deem Tank Structural		23	7080.2100 subp.2(F)	~	
	Condition as Acceptable / Unacceptable		24	7080.2100 subp.3(A)		
j	Evaluate Solids Accumulation in Tank		25	7080.2100 subp.3(B)		
k	Record Future Tank Pumping		26	7080.2100 subp.3(C)		
	Recommendation		27	7080.2100 subp.4(A)		
I	If Pumped, Record Details of Operation		28	7080.2100 subp.4(B)		
m	Evaluate Screen		29	7080.2100 subp.4(C)		
i	Clean screen	Ð		7080.2100 subp.4(D)		

Subtas	If Required for Monitoring, Collect Lab Samples	Knowled	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 1 2 3 4	7080.2150 subp.3(B)7080.2210 subp.1(C)7080.2230 subp.1(D)7080.2260 subp.1(C)7080.2270 subp.1(C)7080.2270 subp.107080.2270 subp.117080.2270 subp.87080.2270 subp.97080.2300 subp.1(C)7080.2450 subp.17080.2450 subp.2(A)7080.2450 subp.3(A)7080.2450 subp.3(B)7080.2450 subp.3(C)7080.2450 subp.3(D)7080.2450 subp.3Understand the components of an onsite wastewater system that includes a pump tankIdentify various types of pumps and their applicationsUnderstand the purpose and O&M requirements for siphonsUnderstand the different functions of surge tanks, pump tanks, recirculation tanks, and internal pump basinsUnderstand the purpose and O&M requirements of the following components	nterpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks Image: state stat
				Understand the different functions of surge tanks, pump tanks, recirculation tanks, and internal pump basins	Interpers	

		Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
		nesota Pollution ontrol Agency	8. As	sess demand-dosed pump/cont	rol sys	stem
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
ubtasks	a b c i d e f g h	Complete Form 6.2 Operational Checklist: Pump: Demand-Dosed System (Including Siphons) Record Details of Current Operation Record System Type Deem Controls as Acceptable or Unacceptable Calculate number of cycles per day Deem Pump / Siphon as Acceptable or Unacceptable Deem Water Level Sensors as Acceptable or Unacceptable Evaluate Settings of Each Sensor Calculate Dose Volume Calculate Pump Delivery Rate Calculate Total Gallons	2 3 4 5	MPCA Requirements 7080.1500 subp.4(A) 7080.1500 subp.4(C) 7080.1500 subp.5 7080.1500 subp.6 7080.2450 subp.1 Learning Objectives Understand settings for demand dosed control panels Apply math calculations for (a) Gallons per inch (b) Doses per day (c) Volume per dose (d) Gallons per day (e) Gallons per minute and (f) Cycle counters-elapsed time meters	Attitudes	
Su	j	Calculate Gallons per Day	Kno		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
	Minnesota Pollution Control Agency	9. As	sess timed-dosed pump/control	syste	m
	List sequenced order of steps to complete the master task Complete Form 6.3 Operational Checklist: Pump: Time-Dosed System (Including Siphons) Record Details of Current Operation Deem Controls as Acceptable or Calculate cycles per day Deem Pump as Acceptable or Unacceptable Deem Water Level Sensors as Acceptable or Unacceptable	2 3 4 5 6	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1500 subp.4(A) 7080.1500 subp.4(C) 7080.1500 subp.5 7080.1500 subp.6 7080.2300 subp.E 7080.2450 subp.1 Learning Objectives Understand settings for time dosed control	Attitudes	Describe how you must behave to complete the subtasks
sks	Evaluate Sensor Settings Calculate Pump Delivery Rate Calculate Dose Volume Calculate Total Gallons Calculate Gallons per Day	CD (panels Apply math calculations for (a) Gallons per inch (b) Doses per day (c) Volume per dose (d) Gallons per day (e) Gallons per minute and (f) Cycle counters-elapsed time meters	Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface S	ewa	ge	Treatment System Professional	Need	d-to-Know: Service Provider				
	Minnesota Pollution Control Agency	10.	As	sess gravity distribution						
	List sequenced order of steps to complete the master task			Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks				
	1 Complete Form 8.1 Operational Checklist:	1		MPCA Requirements	1					
	Gravity Distribution		1	7080.1500 subp.4(A)						
	a Record Details of Current Operation		2	7080.1500 subp.4(C)						
	b Record Method for Dosing to Field		3	7080.1500 subp.5	-					
	c Record Method for Distribution in the Field		4	7080.1500 subp.6	-					
	d Deem Conditions at the Drainfield Site as		5	7080.2050 subp.1	-					
	Acceptable or Unacceptable		6	7080.2050 subp.3(B)(1)	-					
	e Deem Distribution Device as Acceptable or		7	7080.2050 subp.3(B)(2)	-					
	Unacceptable		8	7080.2050 subp.3(B)(3)	S					
	i Measure distal head		9	7080.2050 subp.3(B)(5)	Ð					
	f Deem Each Lateral as Acceptable or	Ð	10	7080.2050 subp.3(D)(1)	Attitude					
S	Unacceptable	ō		7080.2050 subp.3(D)(2)	n					
X	g Deem Inspection Ports as Acceptable or	D	12	7080.2050 subp.3(D)(3)						
S	Unacceptable	Ð		7080.2150 subp.3(J)	H					
to	h Deem Switching Valves as Acceptable or	<u> </u>	14	7080.2210 subp.4(B)	\triangleleft					
Ō	Unacceptable	\leq	15	7080.2210 subp.4(E)						
Π		O	16	7080.2450 subp.1						
Subtask		Know		Learning Objectives						
•••			1	Understand the methods and components						
				of final treatment and dispersal by a gravity						
				distribution system						
			2	Understand the methods that may be used						
				for effluent dispersal in a gravity drainfield						
			3	Understand the purposes of and O&M						
				requirements for the following components						
				in a drainfield (a) serial distribution (b)	e u	Identify the skills necessary for				
				parallel distribution (c) distribution bed (d)	00	interacting with other people in order				
				pressure manifold to gravity distribution	ers	to complete the subtasks				
			4	Understand the purpose of the inspection	rp	· · · · · · · · · · · · · · · · · · ·				
				port in a soil absorption area	Interperson					
					_					
	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider									
---------------------	--	---	-----------------	-----	--	--------------	--	--	--	--
		nesota Pollution ntrol Agency	11. /	Ass	sess pressure distribution					
		List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to			
		the master task			the subtasks		complete the subtasks			
	1	Complete Form 8.3 Operational Checklist:			MPCA Requirements					
		Pressurized Drainfield		1	7080.1500 subp.4(A)					
		Record Details of Current Operation		2	7080.1500 subp.4(C)					
		Determine Effluent Quality		3	7080.1500 subp.5					
		Determine Type of Pressurized Drainfield		4	7080.1500 subp.6	S				
	d	Deem Conditions at the Pressurized		5	7080.2050 subp.1	Ð				
		Drainfield as Acceptable/Unacceptable		6	7080.2050 subp.2(A)	σ				
	е	Deem Supply Line as Acceptable or		7	7080.2050 subp.4(F)	Attitude				
		Unacceptable		8	7080.2050 subp.4(J)	E				
	f	Deem Switching Valves as Acceptable or		9	7080.2050 subp.B(2)	H				
		Unacceptable			7080.2050 subp.B(4)	4				
S	•	Describe Soil Treatment Area	Je		7080.2050 subp.B(8)					
	h	Deem Orifices as Acceptable or	g		7080.2050 subp.D					
S		Unacceptable	M		7080.2150 subp.3(J)					
g	i	Clean orifices	<u><u> </u></u>		7080.2220 subp.1(D)					
Subtas	i	If Required for Monitoring, Collect Lab	Knowled	15	7080.2450 subp.1					
		Samples	0							
$\overline{\Omega}$					Learning Objectives		Identify the skills necessary for			
0,						Skills	interacting with other people in order			
							to complete the subtasks			
						X				
						0)				
						a				
						Ċ				
						0 0				
						S L				
						e e				
						L D				
						Ð				
						Interpersona				

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider									
		nesota Pollution Introl Agency	12.	Ass	sess at-grades & mounds					
		List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to			
		the master task			the subtasks		complete the subtasks			
	1	Complete Form 8.4a. Operational			MPCA Requirements					
		checklist: Bottomless Sand Filters &		1	7080.1500 subp.4(A)					
	а	Record Details of Current Operation		2	7080.1500 subp.4(C)					
	b	Determine Type of System		3	7080.1500 subp.5					
	с	Deem Conditions at the Drainfield Site as		4	7080.1500 subp.6					
		Acceptable or Unacceptable		5	7080.2050 subp.1					
	d	Deem Media Surface as Acceptable or		6	7080.2050 subp.2(A)					
		Unacceptable		7	7080.2050 subp.2(B)	S				
	i	Complete manufacturer's recommended		8	7080.2050 subp.2(C)	Ğ				
		maintenance		9	7080.2050 subp.4(J)	Ř				
	е	Deem Pressure Distribution as Acceptable		10	7080.2150 subp.3(J)	Attitud				
S		or Unacceptable	Je	11	7080.2220 subp.3(O)	t				
Ľ.	i	Measure distal head	g	12	7080.2220 subp.U	Ξ				
S	ii	Clean laterals		13	7080.2230 subp.3(G)	$\overline{\mathbf{A}}$				
g	f	Deem Additional Requirements for Mounds		14	7080.2230 subp.F	-				
S		as Acceptable or Unacceptable	≥	15	7080.2270 subp.7(B)					
H	g	Deem Inspection Ports as Acceptable or	owled	16	7080.2450 subp.1					
Subtasks		Unacceptable	č							
05	h	If Required for Monitoring, Collect Lab	X		Learning Objectives					
		Samples		1	Understand the methods and components					
					of final treatment and dispersal by at-					
					grades and mound systems					
				2	Understand the difference between media					
					filters and media filters used an drainfield					
					options	I	Identify the skills necessary for			
				3	Understand the principles and O&M	na	interacting with other people in order			
					requirements of at-grades	ō	to complete the subtasks			
				4	Understand the principles and O&M	Si				
					requirements of mound drainfields	oe -				
						Interpersonal				
						Ite				
						-				

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider									
		nesota Pollution ontrol Agency	13.	Ass	sess bottomless peat filter					
		List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to			
		the master task			the subtasks		complete the subtasks			
	1	Complete Form 8.4b. Operational			MPCA Requirements					
		checklist: Bottomless peat filter		1	7080.1500 subp.4(A)					
		Record Details of Current Operation		2	7080.1500 subp.4(C)					
		Deem Conditions at the Drainfield Site as		3	7080.1500 subp.5					
	С	Deem Media Surface as Acceptable or		4	7080.1500 subp.6	S				
		Unacceptable		5	7080.2050 subp.1	Ğ				
	i	Clean media		6	7080.2050 subp.2(A)	ð				
	ii	Replace media		7	7080.2050 subp.2(B)	Attitud				
	iii	Complete manufacturer's recommended		8	7080.2050 subp.2(C)	İİ				
		maintenance		9	7080.2050 subp.4(J)	E				
	d	Deem Pressure Distribution as Acceptable	Φ	10	7080.2450 subp.1	$\overline{\mathbf{A}}$				
S		or Unacceptable								
Y	i	Measure distal head	1 2 2		Learning Objectives					
S	ii	Clean laterals	ا کل ا	1	Understand the methods and components					
מ	е	Evaluate Completion of Manufacturer's	ļ		of final treatment and dispersal by					
ot		Required Maintenance	3		bottomless peat filters					
Subtasks	f	If Required for Monitoring, Collect Lab	Knowledg	2	Understand the difference between media					
$\overline{\Omega}$		Samples			filters and media filters used an drainfield					
0)			\mathbf{X}		options	(0)	Identify the skills necessary for			
				3	Understand the principles and O&M	SII	interacting with other people in order			
					requirements of bottomless peat filters	Ξ.	to complete the subtasks			
						Skills				
						e C				
						or				
						S.				
						e L				
						ð				
						Ц Ц				
						nterpersonal				

	Subsurface S	Sewa	age	Treatment System Professional	Nee	d-to-Know: Service Provider
N	linnesota Pollution Control Agency	14.	Ass	sess drip distribution		
	List sequenced order of steps to complete the master task			Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
ubtasks		Knowledge	1	the subtasks MPCA Requirements 7080.1500 subp.4(A) 7080.1500 subp.4(C) 7080.1500 subp.5 7080.1500 subp.6 7080.2050 subp.1 7080.2050 subp.2(A) 7080.2050 subp.2(B) 7080.2150 subp.3(J) 7080.2450 subp.1 Learning Objectives Understand the methods and components of final treatment and dispersal by drip distribution Understand the principles of a drip distribution system Understand the purpose and O&M requirements for the following components in a drip distribution system (a) vacuum breaker (b) pressure compensating emitter	onal s Attitudes	
					Interpersonal	

	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
	nnesota Pollution Control Agency	15. A	ssess aerobic treatment unit		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
1			MPCA Requirements		
'	Aerobic Treatment Unit	1	7080.1500 subp.4(A)		
а	Record Details of Current Operation		? 7080.1500 subp.4(C)		
	Determine Type of Aerobic Treatment Unit		7080.1500 subp.5		
	Deem Conditions at the Aerobic Treatment		7080.1500 subp.6		
Ŭ	Unit as Acceptable or Unacceptable		7080.2050 subp.1		
h	Deem Accessibility to Aerobic Treatment		7080.2050 subp.2(A)	S	
u	Unit as Acceptable or Unacceptable		7080.2050 subp.2(B)	Ŭ	
۵	Deem Venting / Air Supply as Acceptable or		7080.2050 subp.2(C)	ŏ	
U	Unacceptable		7080.2450 subp.1	ň	
i	Clean air filter/screen	, c		Ē	
ii	Replace air filter/screen		Learning Objectives	Ħ	
f	Deem Aeration Chamber as Acceptable or	1	Describe the components of an aerobic	Attitud	
•	Unacceptable	-	treatment unit		
i	Measure DO in aeration chamber	2	Understand the difference between		
ii	Measure pH in aeration chamber	-	suspended growth and attached growth		
 iii	Measure temperature in aeration chamber		treatment processes		
iv	· · · · · · · · · · · · · · · · · · ·	3	Name the treatment process and stages		
q			occurring in a sequencing batch reactor		
9	Unacceptable	4	Identify the different methods to introduce		
i	Wash media		air into an aeration chamber		
ii	Replace media	F	Understand the purposes of and O&M		Identify the skills necessary for
 h	Deem Clarification Chamber as Acceptable		requirements for the following components		interacting with other people in order
••	or Unacceptable		in an aerobic treatment unit (a) Air supply		to complete the subtasks
i	Measure scum layer		bent (b) Schrader valve (c) Aspirator (d)		
ii	Measure clear zone depth below outlet		Clarifier		
	Measure DO in clarifier	F	Understand the effect of hydraulic loading		
	Measure pH in clarifier		on the clarifier and organic loading on the		
v	Measure temperature in clarifier				
()	Deem Sludge Return Operation as	Ð			
S -	Acceptable or Unacceptable	g			

S	i	Deem Control Panel as Acceptable or	Š		
Subtas	,	Unacceptable	Knowlec	-	
t	k	Unacceptable Deem Alarm(s) as Acceptable or	2		
<u> </u>			5	1	
	i	Unacceptable Calculate elapsed time in alarm status Calculate number of alarm events	ž	 -	
S	;;	Calculate number of alarm events	5	-	
		Calculate number of alarm events	X	-	
		Evaluate Completion of Manufacturer's		 -	
		Required Maintenance		 <u></u>	
	m	If Required for Monitoring, Collect Lab			
		Samples		 Skills	
				a	
				č	
				Interpersonal	
				ပ်	
				0	
				 ð	
				 τΨ	
				 4	
				 _	
				-	
				1	
				-	
				 -	
				 -	
				 -	

м		esota Pollution htrol Agency	•	e Treatment System Professiona sess media filter	l Nee	d-to-Know: Service Provider
		List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
		the master task		the subtasks		complete the subtasks
	1	Complete Form 7.1. Operational checklist:		MPCA Requirements		
		Media Filter	1	7080.1500 subp.4(A)		
	а	Record Details of Current Operation	2	7080.1500 subp.4(C)		
	b	Determine Type of Media Filters	3	7080.1500 subp.5		
	С	Deem Conditions at media Filter as	4	7080.1500 subp.6		
		Acceptable or Unacceptable	5	7080.2050 subp.1		
	d	Deem Cover as Acceptable or	6	7080.2050 subp.2(A)		
		Unacceptable	7	7080.2050 subp.2(B)	S	
	е	Deem Venting / Air Supply as Acceptable	8	7080.2050 subp.2(C)	Ð	
		or Unacceptable	9	7080.2050 subp.4(J)	σ	
	f	Deem Media Surface as Acceptable or	10	7080.2450 subp.1	D.	
		Unacceptable			E:	
	i	Complete manufacturer's suggested		Learning Objectives	Attitud	
		maintenance	1	List the types of and differences between	\triangleleft	
	g	Deem Effluent Quality as Acceptable or		the media used in media filters, and		
		Unacceptable		explain how media filters treat wastewater		
	i	Assess turbidity	2	Explain the relationship between effluent		
	ii	Measure DO at outlet		detention time and wastewater treatment		
	iii	Measure pH at outlet		efficiency in media filters		
	iv	Measure temperature at outlet	3	Understand the difference between single		
	h	Deem Pressure Distribution as Acceptable		pass and recirculating media filter		
		or Unacceptable		treatment processes and treatment trains		
	i	Measure distal head	4	Understand trickling filter treatment trains,		
	ii	Clean laterals		and identify treatment processes		Identify the skills necessary for
	i	Deem Gravity Distribution as Acceptable or	5	Explain the difference between media		interacting with other people in orde
		Unacceptable		filters and trickling filters		to complete the subtasks
	j	Deem Filter Drainage Systems as	6	Understand what distal pressure is and		
		Acceptable or Unacceptable		how it may indicate a need for servicing		
	k	Deem Additional Tasks for Recirculating	7	Describe the methods used to clean		
		Filters as Acceptable or Unacceptable	Φ	distribution laterals in media filters		
S	i	Clean recirculation device	Ō			

Subtash	iii	Adjust recirculation ratio Evaluate Completion of Manufacturer's Required Maintenance If Required for Monitoring, Collect Lab Samples	Knowled	8	Understand what recirculation ratio is and how it may indicate the need for service on a media filter	Interpersonal Skills	

			Sewa	age	e Treatment System Professiona	I Nee	d-to-Know: Service Provider
		inesota Pollution ontrol Agency	17.	Ass	sess constructed wetland		
Subtasks	b c d i e f i iii iv g	List sequenced order of steps to complete the master task Complete Form 7.3. Operational checklist: Constructed wetland Record Details of Current Operation Describe Constructed Wetland Deem Conditions at the Constructed Wetland as Acceptable or Unacceptable Deem Water Level Management as Acceptable or Unacceptable Adjust water level Deem Vegetation as Acceptable or Unacceptable Deem Effluent Quality as Acceptable or Unacceptable Measure turbidity Measure DO in outlet Measure pH in outlet Deem Additional Tasks for Subsurface Flow Wetlands as Acceptable or Unacceptable	Knowledge	1	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1500 subp.4(A) 7080.1500 subp.4(C) 7080.1500 subp.5 7080.2050 subp.6 7080.2050 subp.2(A) 7080.2050 subp.2(B) 7080.2050 subp.2(C) 7080.2450 subp.1 7080.2150 subp.3.J Learning Objectives Understand the treatment processes in constructed wetlands. Understand the relationship between hydraulic detention time and the quality of the effluent	Attitudes	Describe how you must behave to complete the subtasks
	i	If Required for Monitoring, Collect Lab Samples				Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider										
		nesota Pollution ontrol Agency	18. A	ssess chlorination disinfection u	init						
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks					
	1	Complete Form 7.5. Operational checklist: Disinfection Unit - Chlorine	1	MPCA Requirements 7080.1500 subp.4(A)							
		Record Details of Current Operation	2	7080.1500 subp.4(C)							
		Deem Operation of Chlorination System as Deem Tablet Chlorination as Acceptable or		7080.1500 subp.5 7080.1500 subp.6							
		Unacceptable	5	7080.2050 subp.1	S						
		Add tablets		7080.2050 subp.2(A)	Ŭ						
		Clean contact chamber and stack feeder Measure chlorine residual		7080.2050 subp.2(B) 7080.2050 subp.2(C)	σ						
		Deem Liquid Chlorinator as Acceptable or		7080.2050 subp.2(C) 7080.2450 subp.1	Attitud						
	ŭ	Unacceptable	۵		til						
ks	i	Measure chlorine residual	ð	Learning Objectives	۲t						
X	е	Deem Tablet Dechlorination as Acceptable		Understand the methods of disinfection	1						
ubtasl		or Unacceptable	G	systems							
ţ		Add tablets	>								
<u>_</u>		Clean contact chamber and stack feeder	\mathbf{S}								
		Measure chlorine residual			-						
က	f	Deem Control Panel as Acceptable or Unacceptable	Knowle								
	g	Evaluate Completion of Manufacturer's									
		Required Maintenance			Ĩ	Identify the skills necessary for					
	h	If Required for Monitoring, Collect Lab			Skills	interacting with other people in order					
		Samples				to complete the subtasks					
					ิต						
					JO L						
					Š						
					9 G						
					j n						
					nterpersonal						

			wage	Treatment System Professional	Need	d-to-Know: Service Provider
		inesota Pollution iontrol Agency	19. A	Assess UV disinfection unit		
		List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
	1	Complete Form 7.6. Operational checklist:		MPCA Requirements		
	1	Disinfection Unit - UV Light		7080.1500 subp.4(A)		
	~	Record Details of Current Operation		2 7080.1500 subp.4(C)		
		Deem Power Supply as Acceptable or		7080.1500 subp.4(C)		
	D	Unacceptable		7080.1500 subp.5		
	;	Replace ballast		7080.2050 subp.0	S	
	1	Deem UV Controls as Acceptable or		7080.2050 subp.1	Ğ	
	U	Unacceptable		7080.2050 subp.2(A)		
	;	Read intensity		7080.2050 subp.2(C)	Y	
	ו ה	Deem Contact Chamber, Lamp and Sleeve		7080.2450 subp.1	Attitud	
	u	Conditions as Acceptable or Unacceptable		7080.2450 Subp.1	E	
S	;	Clean/Flush contact chamber of solids	Je	Learning Objectives	Ž	
Ľ.	1	Clean protective sleeve	bp	Understand the methods of disinfection	-	
S		Replace protective sleeve		systems		
task		Replace UV lamp		Systems		
S		Deem Influent Characteristics as	≥			
H	е	Acceptable or Unacceptable	Ó			
	;	Measure turbidity	Knowle			
က	•	Measure flow rate	$\overline{\mathbf{\nabla}}$			
	f	Deem Control Panel as Acceptable or				Identify the skills necessary for
	I	Unacceptable			×	interacting with other people in order
	~	Deem Housing Unit as Acceptable or			Š	to complete the subtasks
	g	e 1				
	b	Unacceptable Evaluate Completion of Manufacturer's			Ja Ja	
	n				JC	
	:	Required Maintenance If Required for Monitoring, Collect Lab			S.	
	1	Samples			Ц С	
		Samples			ď	
					Ы С	
					nterpersona	

	Subsurface Se	wage	Treatment System Professional	Need	-to-Know: Service Provider
N	innesota Pollution Control Agency	20. A	ssess privy		
Subtasks	List sequenced order of steps to complete the master task	1	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.2280 subp.D 7080.2450 subp.4(B) 7080.1500 subp.6 Learning Objectives	Interpersonal Skills Attitudes	Describe how you must behave to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider					
	innesota Pollution	21. A	ssess, operate and maintain bui	ilding	sewer, collection system,	
	Control Agency		supply pipes	U		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to	
	the master task		the subtasks		complete the subtasks	
	Assess inflow		MPCA Requirements			
	Assess infiltration		7080.1500 subp.4(A)			
С	Assess exfiltration		7080.1500 subp.4(C)	S		
	Assess, operate, and maintain gravity piping		7080.1500 subp.5	Θ		
	Assess, operate, and maintain pressure pipi		7080.1500 subp.6	\overline{O}		
				1		
				t:		
				Attitude		
			Learning Objectives	4		
		-				
()		Ð				
		<u></u>				
		Q				
Subtasks		Knowledge			Identify the skills necessary for	
) t		2			interacting with other people in order	
<u> </u>		5		Skills	to complete the subtasks	
		ž		E:		
0)		\mathbf{i}		X		
		<u> </u>		0)		
				Б		
				č		
				ō		
				S		
				5		
				ð		
				L S		
				nterpersonal		

	Su	ubsurface Sew	age	Treatment System Professional	Need	I-to-Know: Service Provider
M	linnesota Pollution Control Agency	2	2. A	ssess, operate, and maintain wa	ater ta	
b	List sequenced order of s the master t Assess inflow Assess infiltration	task		Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes	Describe how you must behave to complete the subtasks
Subtasks			Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
M	innesota Pollution Control Agency	23. A	ssess, operate, and maintain me	onitori	ng well(s)		
Subtasks	List sequenced order of steps to complete the master task	•	-				
S		ЧN		Interpersonal Ski			

м	Subsurface Se innesota Pollution Control Agency	•	Treatment System Professional omplete system monitoring to me		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
3 4 5 6	Collect samples from appropriate location identified in operating permit or manufacturer recommendation Preserve, store, and ship samples according to certified laboratory standards Record chain of custody Perform field tests as needed such as effluent odor, color, temperature, DO, pH, scum and sludge accumulation, settleability, water table level, etc. Calculate actual flow rate Interpret field test and lab sample results If field sample results unacceptable, troubleshoot system operation and employ contingency plan from operating permit	Knowledge	MPCA Requirements Learning Objectives	Attitudes	
				S	Identify the skills necessary for interacting with other people in order to complete the subtasks

<i>м</i>
<u></u> σ
0
Φ.
<u> </u>
te

	Subsurface Se	wage	Treatment System Professional	Need	-to-Know: Service Provider
м	innesota Pollution Control Agency	C.Tro	publeshoot (identify cause of mal	lfuncti	on) system components
	control hydricy	that a	are deemed unacceptable		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to
			MPCA Requirements		complete the subtasks
			Learning Objectives	S S	
				q	
				tu	
				Attitudes	
				\triangleleft	
		d۲			
S		g			
<u>х</u>		ğ			
Subtasks		Knowledge			Identify the skills necessary for interacting with other people in order
pi		\leq		S	to complete the subtasks
D C		ŭ		٨	
0)		$\overline{\mathbf{X}}$		Skills	
				U9	
				SO	
				С Ф	
				nterpersonal	
				tel	
				Ĺ	

	nnesota Pollution Control Agency	A. Tr	oubleshoot site assessment		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If surface water management is deemed		MPCA Requirements		
	unacceptable	1	7080.2450 subp.7		
а	If surface water is not effectively	2	7080.2000 subp.D		
	managed/diverted away from the site	3	7080.2150 subp.3(J)		
	and/or its components		· · · · ·		
i	Locate source of surface water		Learning Objectives		
ii	Divert surface water away from system with				
	diversion berms and swales				
iii	Divert run-on with gutters, drainiage				
	trenches, and/or berms				
iv	Refer homeowner to consult designer				
	and/or installer, as necessary				
b	If odor is detected within 10 feet of				
	perimeter of the system				
i	Locate source of odor				
ii	If natural plumbing is source of odor, refer				
	homeowner to plumber				
iii	If SSTS is source of odor,				
-	Replace caps			\sim	
-	Replace covers			SS	
-	Replace sealant			¥	
!	Seal tank			Ч Ч	
!	Seal & Secure inspection pipe			t L	
!	Seal electrical connections			.ti	
-	Assess system owner's use to identify			Attitude	
	atypical source			Y	
С	If system components have settled or				
	eroded,				
i	Determine source of settling	Φ			
ii	Refer homeowner to complete themselves	ð			

	f subsurface water management is	<u>e</u>			
	deemed unacceptable	Knowle			
	Assess interceptor drain	5			
	f drainage outlet is physically blocked, clear	Ĕ			
	blockage	$\mathbf{\Sigma}$			
	f rodent guard missing, replace guard	<u> </u>			
	f pump outside structure, troubleshoot				
	oump, pump tank & controls				
	/erify outlet for sump pump discharge				
	Refer homeowner to consult designer				
	and/or installer, as necessary				
	f system encroachment is deemed				
	Inacceptable				
	Note any activities affecting performance				
	Refer homeowner to consult designer				
	and/or installer, as necessary				Identify the skills necessary for
	f vegetation and soils are deemed				interacting with other people in order
	unacceptable				to complete the subtasks
	dentify surfacing or high water levels			 1	Inform home owner of issues arising
	Refer homeowner to complete themselves			 <i>(</i>)	from unacceptable assessment
	or consult installer			 Skills	before action is taken
	f groundwater monitoring wells are			 . <u> </u>	
· · · · · · · · · · · · · · · · · · ·	deemed unacceptable			 $\overline{\mathbf{O}}$	
	Repair/Replace cap				
	Refer homeowner to consult MDH			 g	
	f observation well/piezometer is			 D	
	deemed unacceptable,			 Š	
a R	Repair/Replace cap			nterpersonal	
_				ă	
_					
_				Įŧ	
_					

Subsurface Se	ewage Treatment System Professiona		d-to-Know: Service Provide
Control Agency	1. Troubleshoot holding tank operation	n	
List sequenced order of steps to complete	Identify knowledge necessary to complete		Describe how you must behave to
the master task	the subtasks		complete the subtasks
1 If Conditions at Tank are Deemed	MPCA Requirements		
Unacceptable,	1 7080.1900		
a If odor is found within 10 ft of perimeter of	2 7080.1500 subp.4(A)		
system	3 7080.1500 subp.4(C)		
i Locate source of odor	4 7080.1500 subp.5		
ii If natural plumbing is source of odor, refer	5 7080.1500 subp.6		
homeowner to plumber	6 7080.1970 subp.A		
iii If SSTS is source of odor,	7 7080.1970 subp.B		
- Replace caps	8 7080.1970 subp.C(1)		
- Replace covers	9 7080.1970 subp.C(2)		
- Replace sealant	10 7080.1970 subp.C(3)		
! Seal tank	11 7080.1970 subp.C(4)		
! Seal & Secure inspection pipe	12 7080.2000 subp.D	S	
! Seal electrical connections	13 7080.2000 subp.G	Ð	
- Assess system owner's use to identify	14 7080.2000 subp.H	Attitude	
atypical source	15 7080.2000 subp.K		
2 If Tank Access is Deemed Unacceptable	16 7080.2010 subp.1(A)		
	17 7080.2010 subp.3(A)(2)	Ħ	
a Repair/Replace Maintenance Hole Cover	18 7080.2010 subp.A	\triangleleft	
b Repair/Replace Extensions (Risers)	19 7080.2010 subp.C		
c Repair/Replace Tank Insulation	20 7080.2150 subp.3(B)	-	
d Repair/Replace locks & bolts	21 7080.2270 subp.10	-	
e Replace sealant	22 7080.2270 subp.11	-	
i Seal tank	23 7080.2270 subp.8	-	
ii Seal & Secure inspection pipe	24 7080.2270 subp.9	-	
f Assess Tank Settling	25 7080.2290 subp.B	-	
3 If Alarm is Deemed Unacceptable	26 7080.2290 subp.C		
a Verify alarm is not on silent	27 7080.2290 subp.D		
b Evaluate power supply	28 7080.2290 subp.E		
c Repair/Replace Fuse	O 29 7080.2290 subp.F		
d Clear float obstruction in tank	pg 69		

() e	Adjust float	U U	30	7080.2450 subp.1		
	Repair/Replace Float	wle		7080.2450 subp.2(A)		
	If Current Tank Operating Conditions Is	\geq		7080.2450 subp.2(B)		Identify the skills necessary for
<u> </u>	Deemed Unacceptable	0		7080.2450 subp.3(A)		interacting with other people in order
	If low liquid levels,	Ĕ		7080.2450 subp.3(B)		to complete the subtasks
	Assess watertightness	Ž		7080.2450 subp.3(C)		
	Refer homeowner to consult installer, as	_		7080.2450 subp.5		1 Inform home owner of issues arising
ii	necessary		00			from unacceptable assessment
	If high liquid levels,	-		Learning Objectives		before action is taken
i	Adjust alarm ?					
ii	Adjust pumping schedule					
iii	Assess watertightness					
	Assess homeowner use					
	Assess plumbing leak inside house					
5	If Tank Structural Condition is Deemed				S	
	Unacceptable					
а	Add venting				Skills	
	If not watertight, refer homeowner to					
	consult installer				าล	
с	If unsafe, refer homeowner to consult				Interpersonal	
	installer				rs	
					Se	
					jr K	
					Ite	
					<u> </u>	

	Subsurface S	Sewage	Treatment System Professiona	I Nee	d-to-Know: Service Provider
	esota Pollution ntrol Agency	2. Trou	Ibleshoot grease trap operation		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at Tank are Deemed		MPCA Requirements		
	Unacceptable	1	7080.1900		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(A)		
	system	3	7080.1500 subp.4(C)		
i	Locate source of odor	4	7080.1500 subp.5		
ii	If natural plumbing is source of odor, refer	5	7080.1500 subp.6		
	homeowner to plumber	6	7080.1970 subp.A		
iii	If SSTS is source of odor,	7	7080.1970 subp.B	S	
-	Replace caps	8	7080.1970 subp.C(1)		
-	Replace covers	9	7080.1970 subp.C(2)	ЩЩ	
-	Replace sealant	10	7080.1970 subp.C(3)	Ĭ	
!	Seal tank	11	7080.1970 subp.C(4)	tı	
!	Seal & Secure inspection pipe	12	7080.2000 subp.D	Iti	
!	Seal electrical connections	13	7080.2000 subp.G	Attitude	
-	Assess system owner's use to identify	14	7080.2000 subp.H		
	atypical source	15	7080.2000 subp.K		
2	If Tank Access is Deemed	16	7080.2010 subp.1(A)		
	Unacceptable	17	7080.2010 subp.3(A)(2)		
а	Repair/Replace Maintenance Hole Cover	18	7080.2010 subp.A		
b	Repair/Replace Extensions (Risers)	19	7080.2010 subp.C		
С	Repair/Replace Tank Insulation	20	7080.2150 subp.3(B)		
d	Repair/Replace locks & bolts	21	7080.2270 subp.10		
е	Replace sealant	22	7080.2270 subp.11		
i	Seal tank	23	7080.2270 subp.8		
ii	Seal & Secure inspection pipe	24	7080.2270 subp.9		Identify the skills necessary for
f	Assess Tank Settling	25	7080.2290 subp.B		interacting with other people in order
3	If Alarm is Deemed Unacceptable	26	7080.2290 subp.C	-	to complete the subtasks
а	Verify alarm is not on silent		7080.2290 subp.D	1	Inform home owner of issues arising
b	Evaluate power supply		7080.2290 subp.E		from unacceptable assessment
C	Repair/Replace Fuse	20	7080.2290 subp.F		before action is taken
d	Clear float obstruction in tank	\mathbf{U}_{20}	7080.2450 subp.1		
e	Adjust float	Ŋ Ŋ			

f	Repair/Replace Float	No.	31	7080.2450 subp.2(A)		
4	If Current Tank Operating Conditions	nowle		7080.2450 subp.2(B)	-	
•	Are Deemed Unacceptable	2		7080.2450 subp.3(A)	-	
		5		7080.2450 subp.3(B)	-	
а	If low liquid levels,	ž		7080.2450 subp.3(C)	-	
	Assess watertightness	N N		7080.2450 subp.5	-	
	Refer homeowner to consult installer, as	<u> </u>	00	1000.2400 5000.0	-	
ii	necessary				-	
	If high liquid levels,				-	
i	Adjust alarm ?				-	
ii	Adjust pumping schedule				<u>s</u>	
	Assess watertightness				Skills	
	Assess homeowner use				S	
V	Assess plumbing leak inside house					
Ċ	If no clear zone,				- Š	
	Assess homeowner use				Interpersonal	
	Adjust pumping schedule					
	If too much scum, sludge, or poor color				- ă	
i	Adjust pumping schedule				er	
ii	Assess homeowner use				D T	
	If Condition of Baffles is Deemed				_	
Ũ	Unacceptable				-	
а	Repair Baffles				-	
	Replace Baffles				-	
	If Effluent Screen is Deemed				-	
-	Unacceptable				-	
а	Clean Screen					
	Repair/Replace Screen					
	Reschedule Screen Maintenance					
d	Using design, Verify Screen is Sized					
	Assess homeowner use					
7	If Tank Structural Condition is Deemed					
	Unacceptable					
а	Add venting					
b	If not watertight, refer homeowner to					
	consult installer					
С	If unsafe, refer homeowner to consult					
	installer					

	Subsurface S	Sewage	Treatment System Professiona	I Nee	d-to-Know: Service Provider
	esota Pollution htrol Agency	3. Trou	Ibleshoot septic tank operation		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at Tank are Deemed		MPCA Requirements		
	Unacceptable	1	7080.1900		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(A)		
	system	3	7080.1500 subp.4(C)		
i	Locate source of odor	4	7080.1500 subp.5		
ii	If natural plumbing is source of odor, refer	5	7080.1500 subp.6		
	homeowner to plumber	6	7080.1970 subp.A		
iii	If SSTS is source of odor,	7	7080.1970 subp.B	\sim	
-	Replace caps	8	7080.1970 subp.C(1)	SS	
-	Replace covers	9	7080.1970 subp.C(2)	₩ ₩	
-	Replace sealant	10	7080.1970 subp.C(3)	Υ	
!	Seal tank	11	7080.1970 subp.C(4)	ţ	
!	Seal & Secure inspection pipe	12	7080.2000 subp.D	Attitude	
!	Seal electrical connections	13	7080.2000 subp.G	7	
-	Assess system owner's use to identify	14	7080.2000 subp.H	~	
	atypical source	15	7080.2000 subp.K		
2	If Tank Access is Deemed	16	7080.2010 subp.1(A)		
	Unacceptable	17	7080.2010 subp.3(A)(2)		
а	Repair/Replace Maintenance Hole Cover	18	7080.2010 subp.A		
b	Repair/Replace Extensions (Risers)	19	7080.2010 subp.C		
С	Repair/Replace Tank Insulation	20	7080.2150 subp.3(B)		
d	Repair/Replace locks & bolts	21	7080.2270 subp.10		
е	Replace sealant	22	7080.2270 subp.11		
i	Seal tank	23	7080.2270 subp.8	-	
ii	Seal & Secure inspection pipe	24	7080.2270 subp.9		Identify the skills necessary for
f	Assess Tank Settling	25	7080.2290 subp.B		interacting with other people in order
3	If Alarm is Deemed Unacceptable	26	7080.2290 subp.C		to complete the subtasks
a	Verify alarm is not on silent	27	7080.2290 subp.D	1	Inform home owner of issues arising
b	Evaluate power supply	28	7080.2290 subp.E	-	from unacceptable assessment
С	Repair/Replace Fuse	20	7080.2290 subp.F		before action is taken
d	Clear float obstruction in tank	\mathbf{U}_{20}	7080.2450 subp.1		
е	Adjust float	ng g	pg 71		

f	Repair/Replace Float	No.	31	7080.2450 subp.2(A)		
4	If Current Tank Operating Conditions	nowle		7080.2450 subp.2(B)	-	
•	Are Deemed Unacceptable	2		7080.2450 subp.3(A)	-	
		5		7080.2450 subp.3(B)	-	
а	If low liquid levels,	ž		7080.2450 subp.3(C)	-	
	Assess watertightness	N N		7080.2450 subp.5	-	
	Refer homeowner to consult installer, as	<u> </u>	00	1000.2400 5000.0	-	
ii	necessary				-	
	If high liquid levels,				-	
i	Adjust alarm ?				-	
ii	Adjust pumping schedule				<u>s</u>	
	Assess watertightness				Skills	
	Assess homeowner use				S	
V	Assess plumbing leak inside house					
c C	If no clear zone,				- Š	
	Assess homeowner use				Interpersonal	
	Adjust pumping schedule					
	If too much scum, sludge, or poor color				- ă	
i	Adjust pumping schedule				er	
ii	Assess homeowner use				D T	
	If Condition of Baffles is Deemed				_	
Ũ	Unacceptable				-	
а	Repair Baffles				-	
	Replace Baffles				-	
	If Effluent Screen is Deemed				-	
-	Unacceptable				-	
а	Clean Screen					
	Repair/Replace Screen					
	Reschedule Screen Maintenance					
d	Using design, Verify Screen is Sized					
	Assess homeowner use					
7	If Tank Structural Condition is Deemed					
	Unacceptable					
а	Add venting					
b	If not watertight, refer homeowner to					
	consult installer					
С	If unsafe, refer homeowner to consult					
	installer					

C	ontrol Agency	4. I f	oubleshoot pump tank operation		
	List sequenced order of steps to complete		Identify knowledge necessary to complete	е	Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at Tank Are Deemed		MPCA Requirements		
	Unacceptable		7080.1900		
а	If odor is found within 10 ft of perimeter of	1	2 7080.1500 subp.4(A)		
	system	1	3 7080.1500 subp.4(C)		
i	Locate source of odor	1	4 7080.1500 subp.5		
ii	If natural plumbing is source of odor, refer		5 7080.1500 subp.6		
	homeowner to plumber	(5 7080.1970 subp.A		
iii	If SSTS is source of odor,		7 7080.1970 subp.B		
-	Replace caps		3 7080.1970 subp.C(1)		
-	Replace covers	(7080.1970 subp.C(2)		
-	Replace sealant	1	0 7080.1970 subp.C(3)		
!	Seal tank	1	1 7080.1970 subp.C(4)		
!	Seal & Secure inspection pipe	1	2 7080.2000 subp.D		
!	Seal electrical connections	1	3 7080.2000 subp.G		
-	Assess system owner's use to identify	1	4 7080.2000 subp.H		
	atypical source	1	5 7080.2000 subp.K		
2	If Tank Access is Deemed	1	6 7080.2010 subp.1(A)		
	Unacceptable	1	7 7080.2010 subp.3(A)(2)	()	
а	Repair/Replace Maintenance Hole Cover	1	8 7080.2010 subp.A	es	
b	Repair/Replace Extensions (Risers)	1	9 7080.2010 subp.C	₩ ₩	
С	Repair/Replace Tank Insulation	2	0 7080.2100 subp.2(A)	Attitud	
d	Repair/Replace locks & bolts	2	1 7080.2100 subp.2(D)	t L	
е	Replace sealant	2	2 7080.2100 subp.2(E)	i i i i i i i i i i i i i i i i i i i	
i	Seal tank	2	3 7080.2100 subp.2(F)	1	
ii	Seal & Secure inspection pipe	2	4 7080.2100 subp.3(A)	~	
f	Assess Tank Settling	2	5 7080.2100 subp.3(B)		
3	If Current Tank Operating Conditions	2	6 7080.2100 subp.3(C)		
	Are Deemed Unacceptable	2	7 7080.2100 subp.4(A)		
а	If low liquid levels,	2	8 7080.2100 subp.4(B)		
b	Assess watertightness	a) 2	9 7080.2100 subp.4(C)		
С	Refer homeowner to consult installer, as		0 7080.2100 subp.4(D)		

S	d	If high liquid levels,	Š	31	7080.2150 subp.3(B)		
ð	е	Adjust alarm ?	le	32	7080.2210 subp.1(C)		
ubta	f	Adjust pumping schedule	owled	33	7080.2230 subp.1(D)		
H	g	Assess watertightness	Ó	34	7080.2260 subp.1(C)		
လ	h	Assess homeowner use	ŭ	35	7080.2270 subp.1(C)		
0)	i	Assess plumbing leak inside house	$\overline{\mathbf{\nabla}}$		7080.2270 subp.10		
	4	If Pump or Siphon are Deemed			7080.2270 subp.11		
		Unacceptable			7080.2270 subp.8		
	а	Verify Proper Location of Pump			7080.2270 subp.9		
	b	Replace Pump Block			7080.2300 subp.1(C)		
	С	Repair/Replace pull chain/rope			7080.2450 subp.1		
	5	If Discharge Assembly is Deemed		42	7080.2450 subp.2(A)		
		Unacceptable		43	7080.2450 subp.2(B)		Identify the skills necessary for
	а	Add weep hole		44	7080.2450 subp.3(A)		interacting with other people in order
	b	If weep hole plugged, clear plug		45	7080.2450 subp.3(B)		to complete the subtasks
	С	Clean Inline Screen		46	7080.2450 subp.3(C)		I Inform home owner of issues arising
	d	Repair/Replace Inline Screen		47	7080.2450 subp.3(D)		from unacceptable assessment
	6	If Seal and Watertightness of		48	7080.2450 subp.5		before action is taken
		Electrical Components are Deemed					
		Unacceptable			Learning Objectives	<u></u>	
		Seal Component Connections				Skills	
	b	Refer homeowner to consult electrician, as				$\overline{\mathbf{O}}$	
		necessary					
	7	If Tank Structural Condition Is Deemed				nterpersona	
		Unacceptable				2	
		Add venting				SC SC	
	b	If not watertight, refer homeowner to				J.	
		consult installer				ď	
	С	If unsafe, refer homeowner to consult				L.	
		installer				μ	
		If Solids Accumulating,					
	а	Adjust pumping schedule					
	b	Assess homeowner use					
	С	Refer homeowner to consult designer					
		and/or installer					

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
	nesota Pollution ontrol Agency	5. Tro	publeshoot demand-dosed pump	o/cont	rol system operation
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Controls Are Deemed Unacceptable		MPCA Requirements		
		1	7080.1500 subp.4(A)		
а	Verify meter disc is spinning		7080.1500 subp.4(C)		
b	Verify power at all breakers & fuses with		7080.1500 subp.5	S	
С	volt meter		7080.1500 subp.6	Ð	
d	If breakers tripped, reset breaker	5	7080.2450 subp.1	D	
е	If fuses open, replace fuse			\Box	
f	If relay tripped, reset relay and check if		Learning Objectives	Attitud	
	pump current is within range of relay			L L	
g	If current exceeds relay, replace or repair			4	
	pump				
h	If current does not exceed relay, open lift				
	station to verify pump operation				
i	Check for float operation				
j	Check for objects jamming impeller				
k	Check pump piping				Identify the skills necessary for
L.	If relay not tripped, open lift station to verify				interacting with other people in order
	pump operation				to complete the subtasks
m	If pump not operating, replace or repair			1	Inform home owner of issues arising
	pump				from unacceptable assessment
n	If pump is operating, restore pump panel to				before action is taken
	auto				
0	Replace Control Panel				
р	Check gages				
q	If cycles per day unacceptable,				
i	Check hydraulic condition of drainfield				
ii	Verify float levels are set correctly				
iii	Assess owner use				
iv	Assess inflow	Φ			
S v	Investigate history of wet weather events	g			
⊥ r	Test meter	Ť			

S	S	Repair/Replace Meter				
Subta		Repair/Replace light bulbs	Knowled			
t		Repair/Replace fuses	>			
4		Replace batteries	5			
$\sum_{i=1}^{n}$		Replace lightening arrester	ž	 		
0)		Assess exflow	$\mathbf{\Sigma}$	 		
		Assess drainback	<u> </u>	 	S	
		Verify pump is sized correctly			Skills	
		If enclosure not watertight & secure,	-		S	
	i	Seal & secure enclosure	-		Interpersonal	
	bb	If telemetry unacceptable,			ō	
	i	Reset/Reboot			ŝrs	
	ii	Consult with product manufacturer and/or	-		θe	
		designer			ter	
	2	If Pump / Siphon Is Deemed			<u>I</u>	
		Unacceptable				
		Repair Pump if greater than 1 hp				
		Replace Pump if less or equal to 1 hp				
	С	Using design, verify pump is sized				
		correctly	_			
		Repair/Replace siphon	_			
	е	Verify multiple pumps are sequencing				
		correctly	_			
	3	If Water Level Sensors are Deemed				
		Unacceptable	_			
		Repair/Replace water level sensors	_			
		Clear sensors from obstruction				
		Reset sensors to meet design				
		Adjust sensors to meet actual use				
	е	Secure sensors				
			-			
			-			
			_			

Subsurface Se	wage Treatment System Professional	Need	I-to-Know: Service Provider
Minnesota Pollution Control Agency	6. Troubleshoot timed-dosed pump/co	ontrol	system operation
List sequenced order of steps to complete	Identify knowledge necessary to complete		Describe how you must behave to
the master task	the subtasks		complete the subtasks
1	MPCA Requirements		
If Controls Are Deemed Unacceptable	1 7080.1500 subp.4(A)		
a Verify meter disc is spinning	2 7080.1500 subp.4(C)		
b Verify power at all breakers & fuses with	3 7080.1500 subp.5		
c volt meter	4 7080.1500 subp.6		
d If breakers tripped, reset breaker	5 7080.2300 subp.E	S	
e If fuses open, replace fuse	6 7080.2450 subp.1	Û,	
f If relay tripped, reset relay and check if			
pump current is within range of relay	Learning Objectives	ř	
g If current exceeds relay, replace or repair		Attitud	
pump		E	
h If current does not exceed relay, open lift		Ā	
station to verify pump operation			
i Check for float operation			
j Check for objects jamming impeller			
k Check pump piping			
I If relay not tripped, open lift station to verify			
pump operation			
m If pump not operating, replace or repair			
pump			
n If pump is operating, restore pump panel to			Identify the skills necessary for
auto			interacting with other people in order
o Replace Control Panel			to complete the subtasks
p Check gages		1	Inform home owner of issues arising
q If cycles per day unacceptable,			from unacceptable assessment
i Check hydraulic condition of drainfield			before action is taken
ii Verify timer to set to meet design			
iii Adjust timer to meet actual use			
iv Assess owner use	Φ		
O v Assess inflow	0 0		
vi Investigate history of wet weather events			

S	r	Test meter	U U		
ð		Repair/Replace Meter	Knowled		
t,		Repair/Replace light bulbs	\geq		
		Repair/Replace fuses	\geq		
		Replace batteries			
S		Replace lightening arrester	5		
		Assess exflow	X		
		Assess drainback	-		
			-	 S	
		Verify pump is sized correctly	-	 Skills	
		If enclosure not watertight & secure, Seal & secure enclosure	-	 ž	
			-		
		If telemetry unacceptable,		 าล	
		Reset/Reboot	-	 o	
		Consult with product manufacturer and/or		 rs	
		designer	-)e	
		If Pump / Siphon Is Deemed		Interpersonal	
		Unacceptable	-	te	
	а	Repair Pump if greater than 1 hp		ln	
		Replace Pump if less or equal to 1 hp			
		Using design, verify pump is sized			
		correctly			
		Repair/Replace siphon			
		Verify multiple pumps are sequencing			
		correctly			
		If Water Level Sensors are Deemed			
		Unacceptable			
		Repair/Replace water level sensors			
		Clear sensors from obstruction			
		Reset sensors to meet design			
	d	Adjust sensors to meet actual use			
	е	Secure sensors			

List sequenced order of steps to complete the master task		Identify knowledge necessary to complete		Describe how you must behave
		the subtasks		complete the subtasks
1 If Conditions at the Drainfield Site Are		MPCA Requirements	1	i
Deemed Unacceptable	1	7080.1500 subp.4(A)	-	
a If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(C)		
system	3	7080.1500 subp.5		
i Locate source of odor	4	7080.1500 subp.6		
ii If natural plumbing is source of odor, refer	5	7080.2050 subp.1		
homeowner to plumber	6	7080.2050 subp.3(B)(1)		
iii If SSTS is source of odor,	7	7080.2050 subp.3(B)(2)		
- Replace caps	8	7080.2050 subp.3(B)(3)		
- Replace covers	9	7080.2050 subp.3(B)(5)		
- Replace sealant	10	7080.2050 subp.3(D)(1)		
! Seal tank	11	7080.2050 subp.3(D)(2)	S	
! Seal & Secure inspection pipe	12	2 7080.2050 subp.3(D)(3)	Φ	
! Seal electrical connections	13	3 7080.2150 subp.3(J)	q	
- Assess system owner's use to identify		7080.2210 subp.4(B)	Attitud	
atypical source	15	5 7080.2210 subp.4(E)		
b If leaks above/around surface,	16	7080.2450 subp.1	Ħ	
i Assess system owner's use to identify			\triangleleft	
actual loading rates		Learning Objectives		
ii Refer homeowner to consult designer				
and/or installer				
iii Divert surface with berm				
iv Assess distribution operation				
c If vegetation inappropriate or excessive,				
i Identify surfacing sewage				
ii Refer homeowner to complete themselves				
iii Assess freezing				
2 If Distribution Device Deemed				
Unacceptable	Θ			
S	c Refer homeowner to consult maintainer	No.		Identify the skills necessary for
----	---	------------------------------	--------------	--
ð	and/or installer			interacting with other people in order
	3 If Lateral(s) Is / Are Deemed	Knowlec		to complete the subtasks
H	Unacceptable	Ó	1	Inform home owner of issues arising
	a Cap lateral to temporarily take out of	Ĕ		from unacceptable assessment
0)	operation	$\overline{\mathbf{\nabla}}$		before action is taken
	b If ponding,			
	i Inform homeowner to consult designer			
	and/or installer			
	c If surfacing,			
	i Report to homeowner and LUG			
	ii Repair			
	iii Replace			
	iv Cap lateral to temporarily take out of			
	operation		Skills	
	v Assess system owner's use to identify		i Xi	
	actual loading rates		s S	
	4 If Inspection Ports are Deemed		nterpersonal	
	Unacceptable		õ	
	a Repair/Replace/Secure inspection pipes		S.S	
	5 If Switching Valves Are Deemed		ğ	
	Unacceptable		tel	
	a Adjust valve operation		<u>n</u>	

	ontrol Agency	0. 1100	ubleshoot pressure distribution or		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at the Pressurized		MPCA Requirements		
	Drainfield Are Deemed Unacceptable	1	7080.1500 subp.4(A)		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(C)	S	
	system	3	7080.1500 subp.5	Ð	
i	Locate source of odor	4	7080.1500 subp.6	\overline{O}	
ii	If natural plumbing is source of odor, refer	5	7080.2050 subp.1	1	
	homeowner to plumber	6	7080.2050 subp.2(A)	Attitud	
iii	If SSTS is source of odor,	7	7080.2050 subp.4(F)	LT.	
-	Replace caps	8	7080.2050 subp.4(J)	4	
-	Replace covers	9	7080.2050 subp.B(2)		
-	Replace sealant	10	7080.2050 subp.B(4)		
!	Seal tank	11	7080.2050 subp.B(8)		
!	Seal & Secure inspection pipe	12	7080.2050 subp.D		
!	Seal electrical connections	13	7080.2150 subp.3(J)		Identify the skills necessary for
-	Assess system owner's use to identify	14	7080.2220 subp.1(D)		interacting with other people in or
	atypical source	15	7080.2450 subp.1		to complete the subtasks
b	If leaks above/around surface,			1	Inform home owner of issues arisi
i	Assess system owner's use to identify		Learning Objectives		from unacceptable assessment
	actual loading rates				before action is taken
ii	Refer homeowner to consult designer				
	and/or installer				
iii	Divert surface with berm				
iv	Assess distribution operation				
С	If vegetation inappropriate or excessive,				
i	Identify surfacing sewage				
ii	Refer homeowner to complete themselves				
iii	Assess freezing				
2	If Supply Line is Deemed				
	Unacceptable				
а	Replace air relief valve				
b	Refer homeowner to consult installer	ge			

S		Unacceptable Adjust valve operation If Orifices Are Deemed Unacceptable Replace pipe Replace orifice shield	No.		
g	а	Adjust valve operation			
Subtas	4	If Orifices Are Deemed Unacceptable	Knowlec		
	а	Replace pipe	Ó	S	
$\overline{\Omega}$	b	Replace orifice shield	Č		
0,	_		X	 X	
	-			0)	
	-			 a	
	-		-	 U	
	-		-	 SC	
	-		-	 S C	
	-		-	 ď	
	-			 Interpersonal Skills	
	-		-	nt€	
	-				
	_				
	_		-		
	-				
	-		-		
	-				
	-				
	-				
	-				<u></u>
	_				
	-		-		
	-				

	nesota Pollution ontrol Agency	9. Trou	ubleshoot at-grades & mounds op	peration	on
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave t
	the master task		the subtasks		complete the subtasks
1	If Conditions at the Drainfield Site Are		MPCA Requirements		
	Deemed Unacceptable	1	7080.1500 subp.4(A)		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(C)		
	system	3	7080.1500 subp.5		
i	Locate source of odor	4	7080.1500 subp.6		
ii	If natural plumbing is source of odor, refer	5	7080.2050 subp.1		
	homeowner to plumber	6	7080.2050 subp.2(A)		
iii	If SSTS is source of odor,	7	7080.2050 subp.2(B)		
-	Replace caps	8	7080.2050 subp.2(C)		
-	Replace covers	9	7080.2050 subp.4(J)		
-	Replace sealant	10	7080.2150 subp.3(J)		
!	Seal tank	11	7080.2220 subp.3(O)		
!	Seal & Secure inspection pipe	12	7080.2220 subp.U		
!	Seal electrical connections	13	7080.2230 subp.3(G)		
-	Assess system owner's use to identify	14	7080.2230 subp.F		
	atypical source	15	7080.2270 subp.7(B)		
2	If Media Surface Is Deemed	16	7080.2450 subp.1		
	Unacceptable				
а	If ponding,		Learning Objectives		
i	Clean media			S	
ii	Replace media			Ð	
iii	Consult product manufacturer			Attitud	
	If settling,			n	
i	Replace/Add media			it	
	If animal activity,			t	
i	Consult pest control professional			\triangleleft	
3	If Pressure Distribution Is Deemed				
	Unacceptable				
а	Replace pipe				
b	Replace orifice shield	Φ			

₂	Assess system owner's use to identify loading rate If Inspection Ports Are Deemed Unacceptable Repair/Replace/Secure inspection ports	Knowled		
				Identify the skills necessary for interacting with other people in order to complete the subtasks Inform home owner of issues arising from unacceptable assessment before action is taken
			Interpersonal Skills	

		Subsurface S	Sewag	ge	Treatment System Professional	Nee	d-to-Know: Service Provider
		nesota Pollution ontrol Agency	10. Ti	ro	ubleshoot bottomless peat filter	opera	ation
		List sequenced order of steps to complete			Identify knowledge necessary to complete		Describe how you must behave to
		the master task			the subtasks		complete the subtasks
	1	If Conditions at the Drainfield Site Are			MPCA Requirements		
		Deemed Unacceptable		1	7080.1500 subp.4(A)	S	
	а	If odor at media filter is unacceptable,	2	2	7080.1500 subp.4(C)	Ð	
	i	Assess ponding	3	3	7080.1500 subp.5	Q	
	ii	Assess external ventilation	4	4	7080.1500 subp.6	\Box	
	iii	Assess owner use	5	5	7080.2050 subp.1	Attitud	
	2	If Media Surface Is Deemed	6	6	7080.2050 subp.2(A)	LT	
		Unacceptable	7	7	7080.2050 subp.2(B)	4	
	а	If ponding,	8	8	7080.2050 subp.2(C)		
	i	Clean media	Ş	9	7080.2050 subp.4(J)		
		Replace media	1	0	7080.2450 subp.1		
S	iii	Consult product manufacturer	Ð '				Identify the skills necessary for
Ň	b	If settling,		Knowledg	Learning Objectives		interacting with other people in order
S	i	Replace/Add media					to complete the subtasks
as		If animal activity,	μ			1	Inform home owner of issues arising
5		Consult pest control professional	≥			S	from unacceptable assessment
H	3	If Pressure Distribution Is Deemed	Ó			Skills	before action is taken
$\overline{\mathbf{\Omega}}$		Unacceptable	Ž			X	
05		Replace pipe	$\overline{\mathbf{V}}$			0)	
	b	Replace orifice shield				٦	
						ũ	
						nterpersonal	
						S	
						Ð	
						q	
						ē	
						Jt	
						—	

	Subsurface Se	•	Treatment System Professional		I-to-Know: Service Provide
	Control Agency	11. Tr	oubleshoot drip distribution oper	ation	
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at the Drip Distribution		MPCA Requirements		
	Zone Are Deemed Unacceptable	1	7080.1500 subp.4(A)		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(C)	S	
	system	3	7080.1500 subp.5		
	Locate source of odor	4	7080.1500 subp.6	Attitude	
ii	If natural plumbing is source of odor, refer	5	7080.2050 subp.1	ř	
	homeowner to plumber	6	7080.2050 subp.2(A)	Itl	
	If SSTS is source of odor,	7	7080.2050 subp.2(B)	E	
-	Replace caps	8	7080.2050 subp.2(C)	7	
-	Replace covers	9	7080.2150 subp.3(J)	-	
-	Replace sealant	10	7080.2450 subp.1		
!	Seal tank				
!	Seal & Secure inspection pipe		Learning Objectives		
!	Seal electrical connections				
-	Assess system owner's use to identify				Identify the skills necessary for
	atypical source				interacting with other people in orde
b	If leaks above/around surface,				to complete the subtasks
i	Assess system owner's use to identify			1	Inform home owner of issues arising
	actual loading rates				from unacceptable assessment
ii	Refer homeowner to consult designer				before action is taken
	and/or installer				
iii	Divert surface with berm				
iv	Assess distribution operation				
	If vegetation inappropriate or excessive,				
i	Identify surfacing sewage				
ii	Refer homeowner to complete themselves				
	Assess freezing				
	If Drip Filter Is Deemed Unacceptable				
n a	Repair/Replace bypass flow	G			
	Replace bypass flow valve	ĝ			

Subtas	Replace/Add insulation	Ŭ.			
ന 3	If Effluent Flow Metering Is Deemed	Knowlec			
H	Unacceptable	≥			
	Unacceptable If gpd unacceptable,	Ó			
	Increase flow	Ĕ		<u>N</u>	
UJ ₄	If Switching Valves Are Deemed	$\overline{\mathbf{\nabla}}$		<u> </u>	
	Unacceptable			$\overline{\mathbf{O}}$	
а	Unacceptable Adjust valve operation				
				g	
				S	
				i ú	
				- W	
				Interpersonal Skills	
				lt€	
				_	
				_	
				_	
				_	
			pg 87		

	Subsurface Se	wage	Treatment System Professional	Need	-to-Know: Service Provider
	inesota Pollution iontrol Agency	12. T	roubleshoot aerobic treatment u	nit op	eration
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
1	If Conditions at the Aerobic Treatment		MPCA Requirements	I	
	Unit Are Deemed Unacceptable	1	7080.1500 subp.4(A)		
а	If odor is found within 10 ft of perimeter of	2	7080.1500 subp.4(C)		
	system	3	7080.1500 subp.5	6	
i	Locate source of odor	4	7080.1500 subp.6	S	
ii	If natural plumbing is source of odor, refer	5	7080.2050 subp.1	¥	
	homeowner to plumber	6	7080.2050 subp.2(A)	ЦЧ Ч	
iii	If SSTS is source of odor,	7	7080.2050 subp.2(B)	Attitude	
-	Determine is arline has settled			Ţ.	
-	Replace caps	8	7080.2050 subp.2(C)	Υt	
-	Replace covers		7080.2450 subp.1	1	
-	Replace sealant				
!	Seal tank		Learning Objectives		
!	Seal & Secure inspection pipe				
!	Seal electrical connections				
-	Assess system owner's use to identify				
	atypical source or unusual use				Identify the skills necessary for
2	If Accessibility to Aerobic Treatment			-	interacting with other people in order
-	Unit Is Deemed Unacceptable				to complete the subtasks
				1	Inform home owner of issues arising
а	Repair/Replace Lid				from unacceptable assessment
b	Repair/Replace Extensions (Risers)				before action is taken
c	Repair/Replace ATU Insulation			-	
d	Repair/Replace locks & bolts				
e	Replace sealant				
3	If Venting / Air Supply Is Deemed				
-	Unacceptable				
а	Clean air filters/screen				
b	Replace air filters/screen				
c	Refer homeowner to consult electrician				
-	Repair/Replace blower/compressor				

е	Consult product manufacturer						
f	Clear venting line						
g	Clear air supply line						
	Repair/Replace section of air supply line						
	If Aeration Chamber Is Deemed						
	Unacceptable						
а	If settleability unacceptable,						
i	Refer homeowner to consult maintainer						
ii	Reschedule pumping frequency						
	Verify manufacturer suggested		_				
	maintenance has been completed		_				
b	If black color in aeration chamber,		_				
i	Assess system owner's use to identify		_				
	atypical source		_				
ii	Boost digestible material		_				
	Assess time dosing schedule		_				
	If clear color in aged system,		_				
i	Eliminate hydraulic overload		_				
d	If foaming and froathing,		_				
i	Install froth spray pump		_				
5	If Media Is Deemed Unacceptable						
	If plugging and/or floating						
i	Assess system owner's use						
6	If Clarification Chamber Is Deemed						
	Unacceptable		_				
а	If scum layer unacceptable,						
i	Refer system owner to consult maintainer						
ii	Evaluate interval from previous service						
iii	Assess system owner's use to identify						
	atypical source						
iv	Reschedule pumping frequency						
	If dissolved oxygen is low,						
i	Assess owner use						
ii	Assess air supply						
	If pH unacceptable,						
i	Assess owner use	Je					

X	d	If temperature unacceptable,	Ř				
S		Seal	Ő				
ð	ii	Add insulation				-	
t	iii	Assess plumbing leaks inside home	≥			-	
닉		If effluent odor and/or color is unacceptable,	6			-	
Subta:	i	Assess owner use	č				
0)	ii	Assess air supply	Knowled			<u>s</u>	
	f	If turbidity is unacceptable,				Ē	
		Assess owner use				Skills	
		Assess media cleanliness					
		If Sludge Return Operation is Deemed				ש	
		Unacceptable				2	
		Repair/Replace pump				ů.	
	b	Verify sludge wasting rate is set to meet					
		design				ă	
	С	Adjust sludge wasting rate to meet actual				9	
	~	use				nterpersona	
		If Control Panel Is Deemed					
		Unacceptable				_	
		Verify meter disc is spinning				_	
		Verify power at all breakers & fuses with				-	
		volt meter				-	
		If breakers tripped, reset breaker				-	
		If fuses open, replace fuse If relay tripped, reset relay and check if				-	
	I	pump current is within range of relay				-	
	~	If current exceeds relay, replace or repair				-	
	g	pump				-	
	h	If current does not exceed relay, open lift				-	
		station to verify pump operation				-	
		Check for float operation				-	
	i	Check for objects jamming impeller				-	
	k	Check pump piping		 			
		If relay not tripped, open lift station to verify					
		pump operation					
		If pump not operating, replace or repair pump					

n	If nume is appreting, restars nume panel to			
n	If pump is operating, restore pump panel to		 	
	auto			
0	Replace Control Panel			
р				
S	Repair/Replace Meter			
t	Repair/Replace light bulbs			
u	Repair/Replace fuses			
v	Replace batteries			
	Replace lightening arrester			
7	Verify pump is sized correctly			
- 22	If enclosure not watertight & secure,			
i	Seal & secure enclosure			
;;	Consult with product manufacturer and/or			
Ш				
0	designer			
9	If Alarm is Deemed Unacceptable,			
	Replace batteries			
b	Replace lightening arrester			
С	If telemetry unacceptable,			
i	Reset/Reboot			
ii	Consult with product manufacturer and/or			
	designer			

			oubleshoot media filter operatior		
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave
	the master task		the subtasks		complete the subtasks
1	If Conditions at Media Filter Are Deemed		MPCA Requirements		
	Unacceptable		7080.1500 subp.4(A)		
а	If odor at media filter is unacceptable,		7080.1500 subp.4(C)		
i	Assess ponding	3	7080.1500 subp.5		
ii	Assess external ventilation	4	7080.1500 subp.6		
iii	Assess owner use	5	7080.2050 subp.1		
iv	Assess media cell	6	7080.2050 subp.2(A)		
	Assess lid seal	7	7080.2050 subp.2(B)		
2	If Cover Is Deemed Unacceptable	8	7080.2050 subp.2(C)		
а	Repair/Replace cover	9	7080.2050 subp.4(J)		
b	Secure cover	10	7080.2450 subp.1	S	
3	If Venting / Air Supply Is Deemed			Ŭ	
	Unacceptable		Learning Objectives	ð	
а	Clean air filters/screen			Ĭ	
b	Replace air filters/screen			<u>t</u>	
С	Refer homeowner to consult electrician			E	
d	Repair/Replace blower/compressor			Attitud	
е	Consult product manufacturer				
f	Clear venting line				
g	Clear air supply line				
h	Repair/Replace section of air supply line				
4	If Media Surface Deemed Unacceptable				
а	If ponding,				
i	Clean media				
ii	Replace media				
iii	Troubleshoot underdrain				
iv	Troubleshoot soil treatment system				
v	Consult product manufacturer				
b	If settling,				
i	Replace/Add media				Identify the skills necessary fo
с	If animal activity,				interacting with other people in o

5 If Effluent Quality is Deemed Unacceptable 1 a If turbidity is unacceptable, 1 i Assess owner use 1 ii Adjust recirculation ratio us set to meet 1 iii Seal 1 v Add insulation 1 v Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1 ii Assess owner use 1<		i	Consult pest control professional			to complete the subtasks
Unacceptable if turbidity is unacceptable, i Assess owner use if turbidity is unacceptable, i Assess owner use is Assess owner use i Assess owner use if dissolved oxygen is low, i Assess owner use is Assess owner use ii Assess owner use is Assess owner use ii Assess owner use if the unacceptable, i Assess owner use is Assess owner use ii Venfly recirculation ratio us set to meet design is Seal iv Add insulation vassess owner use i Assess owner use is Replace media i Assess owner use is Assess owner use i Assess owner use is Replace onfice shield i Assess owner use is Assess owner use i Replace onfice shield is Replace onfice shield 7 If Gravity Distribution Deemed is Replace onfice shield 7 If Gravity Distribution Beemed is Replace onfice shield 8 Replace onfice shield is Replace onfice shield 8 Replace onfice shield is Replace		5			 1 1	
a If turbidity is unacceptable, i Assess owner use i Assess media cleanliness b If oily film is unacceptable, i Assess owner use c If dissolved oxygen is low, i Assess owner use c If dissolved oxygen is low, i Assess owner use d If pH unacceptable, i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use i Assess owner use other unacceptable, i Assess owner use other unacceptable, i Adjust recirculation ration to meet actual use ii Seal v Assess plumbing leaks inside home v Assess owner use i Assess owner use i Assess owner use ii Replace redia d If Pressure Distribution Is Deemed Unacceptable a Replace pipe b Replace pipe b Replace office shield 7 If Gravity Distribution Deemed Unacceptable a Replace pipe b Calibrate device c Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe <p< td=""><td></td><td>Ŭ</td><td></td><td></td><td> - ·</td><td></td></p<>		Ŭ			 - ·	
System Distribution Is Deemed Unacceptable, I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Assess owner use I Adjust recirculation ratio us set to meet design I Adjust recirculation ratio to set actual use I Adjust recirculation ratio to meet actual use I Assess owner use I Adjust recirculation ratio to meet actual use I Assess owner use I		а	If turbidity is unaccentable		 -	
iii Assess media cleanliness b Ir dily film is unacceptable, i Assess owner use c If dissolved oxygen is low, i Assess owner use iii Assess aur supply d If pH unacceptable, i Assess owner use e If temperature unacceptable, i Assess pumbing leaks inside home iv Add insulation v Assess air supply iii Addiust certiculation ratio to meet actual use iii Seal v Add insulation v Assess owner use ii Assess owner use iii Assess owner use iiii Asseses or supply <t< td=""><td></td><td>i</td><td></td><td></td><td> -</td><td></td></t<>		i			 -	
b If oily film is unacceptable, Assess owner use i Assess owner use i Adjust recirculation ratio us set to meet design i Adjust recirculation ratio us set to meet design i Adjust recirculation ratio us set to meet design i Adjust recirculation ratio us set to meet i Assess owner use i Assess ow		ii			 -	
i Assess owner use i Assess air supply d If pH unacceptable, i Assess air supply d If pH unacceptable, i Assess owner use e If temperature unacceptable, i Verify recirculation ratio to meet actual use ii Seal ii Adjust recirculation ratio to meet actual use ii Seal ii Adjust recirculation ratio to meet actual use ii Seal ii Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use ii Replace media g If effluent odor and/or color is unacceptable ii Assess air supply ii Aspectable ii Assess air supply ii Assess air supply ii Assess air		h			 -	
c If dissolved oxygen is low, i Assess owner use i Assess owner use e If temperature unacceptable, i Verify recirculation ratio us set to meet design i Adjust recirculation ratio to meet actual use ii Seal v Add insulation Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use ii Replace media g If effluent odor and/or color is unacceptable i Assess owner use ii Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable a Replace office shield 7 If Gravity Distribution Deemed Unacceptable a Replace office shield 7 If Gravity Distribution Deemed Unacceptable a Replace office shield 7 If Gravity Distribution Deemed Unacceptable a Replace office shield 5 Calibrate device C Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable S Calibrate device C Replace/Repair device S Calibrate device C Replace/Repair device		i			 -	
i Assess owner use i Assess air supply d If pH unacceptable, i Assess owner use e If temperature unacceptable, i Verify recirculation ratio us set to meet design i Adjust recirculation ratio to meet actual use ii Seal v Add insulation v Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use i Replace media g If effluent odor and/or color is unacceptable i Assess owner use i Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable A Replace orifice shield i Aracceptable i Araceptable i Galibrate device C Replace/Repair device i Replace orifice shield i H Filter Drainage Systems Are Deemed Unacceptable i H Assess Are Deemed Inacceptable i H Filter Drainage Systems Are Deemed Inacceptable		r C			 -	
ii Assess air supply d If pH unacceptable, i Assess owner use e If temperature unacceptable, i Verify recirculation ratio to meet actual use ii Seal v Adsess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use ii Assess air supply f If fravity Distribution Is Deemed Unacceptable a Replace office shield F If Gravity Distribution Deemed Unacceptable A Replace office shield if Fitter Drainage Systems Are Deemed Unacceptable K F Fitter Drainage Systems Are Deemed Unacceptable K F Itter Drainage Systems Are Deemed Unacceptable		i			 -	
d If pH unacceptable, i Assess owner use i It temperature unacceptable, i Verify recirculation ratio us set to meet design i Adjust recirculation ratio to meet actual use is Seal iv Add insulation v Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use i Replace media I Perssure Distribution Is Deemed Unacceptable a Replace pipe b Replace pipe b Replace pipe a Replace pipe b Replace pipe b Replace pipe c Replace pipes b Calibrate device c Replace/Repair device b K feplace/Repair device b Calibrate device c Replace/Repair device b K feplace/Repair device b K feplace/Repair device c Replace/Repair device c Replace/Replace/Repair device c Re		ii			 -	
 Assess owner use If temperature unacceptable, Verify recirculation ratio us set to meet design Adjust recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation ratio to meet actual use Seal Verify recirculation Assess oner use Replace media Replace orifice shield 		ď			 -	
 e If temperature unacceptable, i Verify recirculation ratio us set to meet design ii Adjust recirculation ratio to meet actual us iii Seal iv Add insulation v Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use ii Replace media g If effluent odor and/or color is unacceptable ii Assess owner use iii Assess owner use iii Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable a Replace pipe b Calibrate device c Replace/Repair device k Filter Drainage Systems Are Deemed Unacceptable iii Assess owner use iiii Assess owner		i			 -	
 Verify recirculation ratio us set to meet design Adjust recirculation ration to meet actual use Adjust recirculation ration to meet actual use Add insulation Add insulation Assess plumbing leaks inside home I bypass or overflow unacceptable, Assess owner use Replace media Replace orifice shield I fressure Distribution Deemed Unacceptable Replace refice shield Replace refice shield I friter Drainage Systems Are Deemed I hacceptable I filter Drainage Systems Are Deemed I hacceptable I filter Drainage Systems Are Deemed I hacceptable I filter Drainage Systems Are Deemed I hacceptable I haccept					 -	
design ii Adjust recirculation ration to meet actual use iii Seal		i			 -	
ii Adjust recirculation ration to meet actual us Seal V Add insulation V Assess plumbing leaks inside home f if bypass or overflow unacceptable, i Assess owner use ii Replace media g If effluent odor and/or color is unacceptable i Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable a Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable					 -	
iii Seal iv Add insulation v Assess plumbing leaks inside home i I bypass or overflow unacceptable, i Assess owner use ii Replace media ii Replace media ii Assess owner use ii Assess owner use ii Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable Imacceptable a Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replace pipe b Replare device c Replare device c Replare device c Replare device s If Filter Drainage Systems Are Deemed Unacceptable Imacceptable		ii			1	
V Assess plumbing leaks inside home f If bypass or overflow unacceptable, i Assess owner use ii Replace media g If effluent odor and/or color is unacceptable Assess owner use ii Assess air supply 6 If Pressure Distribution Is Deemed Unacceptable a Replace orifice shield T If Gravity Distribution Deemed Unacceptable a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable		iii	Seal			
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable		iv	Add insulation			
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	S	v	Assess plumbing leaks inside home	Æ		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	Ľ.	f	If bypass or overflow unacceptable,	3		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	S	i	Assess owner use	^o		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	g	ii		μ		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	5	g		≥		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	¥	i		Ó		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable 0 Unacceptable	$\overline{\mathbf{Q}}$	ii		Ž		
Unacceptable Replace pipe a Replace orifice shield b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable	0)	6	If Pressure Distribution Is Deemed	$\overline{\mathbf{V}}$		
b Replace orifice shield 7 If Gravity Distribution Deemed Unacceptable a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable						
7 If Gravity Distribution Deemed Unacceptable a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable V V		а				
Unacceptable Image: Settled pipes a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable Image: Settled pipes		b				
a Repair settled pipes b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable		7	If Gravity Distribution Deemed			
b Calibrate device c Replace/Repair device 8 If Filter Drainage Systems Are Deemed Unacceptable						
		а				
		b			<u>S</u>	
Unacceptable		С			 -	
		8			 S	
a If ponding in sump float,					 	
		а	If ponding in sump float,		 Ŋ	

i	Replace/Repair pump			
ii	Clear drainage pipe		00	
iii	Clean sump area		S.	
iv	Clear obstruction from vent		Interperson	
	If Additional Tasks for Recirculating		L L	
0	Filters are Deemed Unacceptable		Ð	
	Fillers are Deemed Onacceptable		Dt I	
-	If disselved any man is high		—	
a	If dissolved oxygen is high,			
1	Assess recirculation ration			
b	If dissolved oxygen is low,			
	Assess owner use			
ii	Assess air supply			
		1		

	Control Agency	14. 110	oubleshoot constructed wetland c	pera	
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to
	the master task		the subtasks		complete the subtasks
1	If Conditions at the Constructed		MPCA Requirements		
	Wetland Are Deemed Unacceptable	1	7080.1500 subp.4(A)		
а	If odor at media filter is unacceptable,	2	7080.1500 subp.4(C)		
i	Assess ponding	3	7080.1500 subp.5	S	
ii	Assess external ventilation	4	7080.1500 subp.6	Ð	
iii	Assess owner use	5	7080.2050 subp.1	σ	
b	If border material unacceptable,	6	7080.2050 subp.2(A)	Attitud	
i	Repair/Replace border material	7	7080.2050 subp.2(B)		
С	If water/soil entering wetland,	8	7080.2050 subp.2(C)	Ħ	
i	Repair/Replace liner	9	7080.2150 subp.3(J)	\triangleleft	
ii	Refer homeowner to consult pest control	10	7080.2450 subp.1		
	professional				
2	If Water Level Management Is Deemed		Learning Objectives		
	Unacceptable				
а	If header distribution plugged,				
i	Clean header distribution				Identify the skills necessary for
b	If water level adjustment needed,				interacting with other people in orde
i	Adjust water level				to complete the subtasks
3	If Vegetation Is Deemed Unacceptable				· · ·
				1	Inform home owner of issues arisin
а	Remove/Replace Vegetation				from unacceptable assessment
4	If Effluent Quality Is Deemed				before action is taken
	Unacceptable				
а					
i	Assess owner use				
ii	Assess media cleanliness				
b	If oily film is unacceptable,				
i	Assess owner use				
с	If dissolved oxygen is low,				
i	Assess owner use				
) ii	Assess air supply)e			
d	If pH unacceptable,	g			

S		Assess owner use	Knowlec			
g		If temperature unacceptable,	l e			
Subtas		Seal	3			
		Add insulation	Ó			
$\overline{\mathbf{\Omega}}$	iii	Assess plumbing leaks inside home	Ċ			
0,	f	If bypass or overflow unacceptable,	\mathbf{X}		S	
	i	Assess owner use			dil	
	ii	Replace media			Skills	
		If effluent odor and/or color is unacceptable			=	
		Assess owner use			na	
	ii	Assess air supply			Ö	
	5	If Additional Tasks for Subsurface Flow			Si	
		Wetlands Are Deemed Unacceptable			be	
					l le	
		Lower water level			Interpersonal	
		Add media		 	-	
	6	If Inspection Ports Are Deemed		 		
		Unacceptable		 		
	а	Repair/Replace/Secure inspection port		 		
			-	 		
			-	 		
			-	 		
			-	 		
			-			
			-	 		

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider									
		nesota Pollution ontrol Agency	15. T	roubleshoot chlorination disinfed	tion	unit operation				
		List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to				
		the master task		the subtasks		complete the subtasks				
	1	If Operation of Chlorination System Is		MPCA Requirements						
		Deemed Unacceptable		7080.1500 subp.4(A)						
	2	If Tablet Chlorination Is Deemed		7080.1500 subp.4(C)	S					
		Unacceptable		7080.1500 subp.5	(1)					
	3	If Liquid Chlorinator Is Deemed		7080.1500 subp.6	õ					
		Unacceptable		7080.2050 subp.1	ň					
	4	If Tablet Chlorination Is Deemed		7080.2050 subp.2(A)	iti					
		Unacceptable		7080.2050 subp.2(B)	tt					
	5	If Control Panel Is Deemed		7080.2050 subp.2(C)	Attitud					
		Unacceptable		7080.2450 subp.1						
0			Ð							
		Are you a chlorination expert?	g	Learning Objectives						
S		Please call Jane @ MPCA 651-297-1605	Ő							
ð			le							
H			\geq			Identify the skills necessary for				
닉			6			interacting with other people in order				
Subtasks			Knowled		6	to complete the subtasks				
0)			$\overline{\mathbf{\nabla}}$		Skills	1 Inform home owner of issues arising from unacceptable assessment				
					X	before action is taken				
					nterpersonal					
					L L					
					SC					
					er					
					ă					
					el					
					nt					
					_					

	List sequenced order of steps to complete		Identify knowledge necessary to complete	-	Describe how you must behav
	the master task		the subtasks		complete the subtasks
1	If Power Supply Is Deemed		MPCA Requirements		· · · · · · · · · · · · · · · · · · ·
	Unacceptable	1	7080.1500 subp.4(A)		
а	Refer homeowner to consult with electrician	2	7080.1500 subp.4(C)	S	
		3	7080.1500 subp.5	Ð	
2	If UV Controls Are Deemed	4	7080.1500 subp.6	0	
	Unacceptable	5	7080.2050 subp.1		
а	Repair/Replace alarm	6	7080.2050 subp.2(A)	Eit	
3	If Contact Chamber, Lamp or Sleeve	7	7080.2050 subp.2(B)	Attitude	
	Conditions Are Deemed Unacceptable	8	7080.2050 subp.2(C)		
а	Repair/Replace contact chamber	9	7080.2450 subp.1		
b	Replace lamp				
	Replace sleeve		Learning Objectives		
4	If Influent Characteristics Are Deemed				
	Unacceptable				Identify the skills necessary f
а	If turbidity unacceptable,				interacting with other people in c
i	Troubleshoot treatment component up				to complete the subtasks
	treatment train				1 Inform home owner of issues aris
b	If flow rate is too high,				from unacceptable assessment
i	Lower flow rate				before action is taken
5	If Control Panel Is Deemed				
	Unacceptable				
а	Verify meter disc is spinning				
b	Verify power at all breakers & fuses with				
С	volt meter				
d	If breakers tripped, reset breaker				
е					
f	If relay tripped, reset relay and check if				
	pump current is within range of relay				
g	If current exceeds relay, replace or repair	Ð			

S		station to verify pump operation	С С				
D	i	Check for float operation	Knowled				
Subta	i	Check for objects jamming impeller	>				
	ķ	Check pump piping	5				
	Т	If relay not tripped, open lift station to verify	Ĕ			<u>S</u>	
U)		pump operation	$\overline{\mathbf{\nabla}}$				
	m	If pump not operating, replace or repair				Skills	
		pump					
	n	If pump is operating, restore pump panel to				ื่อ	
		auto					
	0	Replace Control Panel				00	
		Check gages				S.	
	s	Repair/Replace Meter)e	
	t	Repair/Replace light bulbs				nterpersonal	
		Repair/Replace fuses				te	
		Replace batteries					
	w	Replace lightening arrester					
	z	Verify pump is sized correctly					
	aa	If enclosure not watertight & secure,					
		Seal & secure enclosure					
	ii	Consult with product manufacturer and/or					
		designer					
	6	If Housing Unit is Deemed					
		Unacceptable					
	а	Clean housing unit					
	b	Repair/Replace housing unit					

Subsurface Sewage Treatment System Professional Need-to-Know: Service P								
N	linnesota Pollution Control Agency	17. 1	17. Troubleshoot privy					
Subtasks	List sequenced order of steps to complete the master task	1	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1500 subp.6 7080.2280 subp.D 7080.2450 subp.4(B) Learning Objectives	Interpersonal Skills Attitudes	Describe how you must behave to complete the subtasks			

Subsurface Sewage Treatment System Professional Need-to-Know: Service Prov								
м	innesota Pollution Control Agency	18. 1	Froubleshoot building sewer, coll	ectio	n system, and supply pipe			
		opera	ation					
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks			
1	Troubleshoot gravity piping		MPCA Requirements					
	Troubleshoot pressure piping		7080.1500 subp.4(A)					
3	If collection system basins or tanks are		7080.1500 subp.4(C)	S				
	deemed unacceptable		7080.1500 subp.5	<u>d</u>				
	If pumps are deemed unacceptable	d	7080.1500 subp.6	2				
5	If pump panels are deemed unacceptable			L L				
			Learning Objectives	Attitud				
				¥.				
				-				
S		Э́е						
Ľ.		$\frac{3}{2}$						
S					Identify the skills necessary for			
Subtasks		Knowledge			interacting with other people in order			
Ō		3		S	to complete the subtasks			
		0		l ≚ ∕	Inform home owner of issues arising			
$\overline{\Omega}$				Ξ.	from unacceptable assessment			
• • •		$\mathbf{\Sigma}$		Skill	before action is taken			
				a				
				00				
				5				
				Q				
				d D				
				ē				
				Interpersonal				
				—				

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Pollution D Determine if adjustment, repair, replacement, or upgrade is							
recommended or corrective action is required							
	List sequenced order of steps to complete the master task	-	Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks		
sks		edge	Learning Objectives	Attitudes			
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks		

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider							
	nnesota Pollution Control Agency	1. Delegate unauthorized work to appropriately licensed designer,						
	Control Agency	installer, maintainer, inspector, electrician, plumber, or other licensed						
		professional						
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks			
A S		ВС	MPCA Requirements 7080.1670 7083.0700 Learning Objectives	Attitudes				
Subtasks		Knowledg		nterpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks			

	pg 104	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	innesota Pollution Control Agency	2. Comply with various repair, replacement, remediation, upgrade,					
	Control Agency	and c	orrective action requirements in	local	ordinances		
A	List sequenced order of steps to complete the master task	A B C D E	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1500 Subp. 6 7082.0100 Subp. 3 Item O Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks		
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks		

	pg 104	
L	15	

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Pollution Control Agency	3. Properly abandon system with no	future	intent for use			
List sequenced order of steps to complete the master task	Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks			
A Properly abandon tank(s)	MPCA Requirements	_				
B Properly dispose or cover contaminated materials	A					
C Complete, sign, and submit a record of abandonment to local program within 90 days	B C D E	Attitudes				
	Learning Objectives	At				
sks	dge					
Subtasks						
Sut	Knowledge	Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks			
		ona				
		erso				
		terpersonal				

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
м	innesota Pollution Control Agency	4. Re	pair, replace, or upgrade mainte	enance	e hole riser and cover
A	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks
				Attitudes	
			Learning Objectives	Atti	
Isks		edge			
Subtasks		Knowledge		Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks
				rsonal	
				Interpersona	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provide							
м	innesota Pollution Control Agency	5. Ad	just, repair, replace, or upgrade	sewa	ge tank alarm sensors and			
	control rightly	contr						
A	List sequenced order of steps to complete the master task	A B C	Identify knowledge necessary to complete the subtasks MPCA Requirements	Se	Describe how you must behave to complete the subtasks			
0		Je a	Learning Objectives	Attitudes				
Subtasks		Knowledge		Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks			
				Interpersonal				
	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider							
----------	--	-----------------------	---	----------------------	---	--	--	--
	innesota Pollution Control Agency	6. Re	pair, replace, or upgrade sewag	e tank	k baffle			
A	List sequenced order of steps to complete the master task	A B C D E	Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes	Describe how you must behave to complete the subtasks			
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks			

	Subsurface Se	wage	Treatment System Professional	Need	l-to-Know: Service Provider
M	innesota Pollution Control Agency	7. Re	pair, replace, or upgrade sewag	e tanl	c effluent screen
Subtasks		7. Re	Identify knowledge necessary to complete the subtasks MPCA Requirements	Interpersonal Skills Attitudes	C effluent screen Describe how you must behave to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider							
м	innesota Pollution Control Agency	8. Re	pair, replace, or upgrade sewag	e tank	k inspection pipe			
Subtasks	Control Agency List sequenced order of steps to complete the master task	8. Re	Identify knowledge necessary to complete the subtasks MPCA Requirements	Interpersonal Skills Attitudes	K inspection pipe Describe how you must behave to complete the subtasks			

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
м	innesota Pollution Control Agency	9. Ad	just, repair, or replace sewage p	oump	
sks	List sequenced order of steps to complete the master task	dge	Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
Minn Co	nesota Pollution ontrol Agency	10. A	djust, repair, or replace siphon		
Co	List sequenced order of steps to complete the master task	Knowledge	Identify knowledge necessary to complete the subtasks MPCA Requirements	Interpersonal Skills Attitudes	Describe how you must behave to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	innesota Pollution Control Agency	11. A	djust, repair, replace, or upgrade	e dosi	ng floats, sensors, timers,		
		or co	ntrols				
A Sy	List sequenced order of steps to complete the master task	age D E D E		Attitudes	Describe how you must behave to complete the subtasks		
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks		

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
м	innesota Pollution Control Agency	12. A	djust or repair at-grades & mour	nds	
Subtasks	List sequenced order of steps to complete the master task	12. A	Identify knowledge necessary to complete the subtasks MPCA Requirements	nterpersonal Skills Attitudes	Describe how you must behave to complete the subtasks
				Inter	

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provide							
	innesota Pollution Control Agency	13. A	djust or repair bottomless peat f	ilter a	nd replace media			
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks			
Subtasks		Knowledge		Interpersonal Skills Attitudes	Identify the skills necessary for interacting with other people in order to complete the subtasks			

Subsurface Sewage Treatment System Professional Ne	ed-to-Know: Service Provider
Minnesota Pollution Control Agency 14. Adjust or repair drip distribution	
Sysetons reaction of steps to complete the master task A Sysetons	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
	innesota Pollution Control Agency	15. A	djust or repair aerobic treatment	t unit a	and replace media
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills Attitudes	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
	nnesota Pollution Control Agency	16. A	djust or repair media filter and re	eplace	e media
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills Attitudes	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	l-to-Know: Service Provider
м	innesota Pollution Control Agency	17. A	djust or repair constructed wetla	nd an	d replace media and
	Control Agency	veget	ation		
А	List sequenced order of steps to complete the master task	A	Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks
		B C D E	Learning Objectives	Attitudes	
				At	
sks		dge			
Subtasks		Knowledge		Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks
				Interpersonal	
				Int	

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider \sim **Minnesota** Pollution 18. Adjust or repair chlorination disinfection unit and replace chlorine **Control Agency** List sequenced order of steps to complete Identify knowledge necessary to complete Describe how you must behave to the subtasks complete the subtasks the master task **MPCA Requirements** А А В Attitudes С D Е Learning Objectives Knowledge Subtasks Identify the skills necessary for interacting with other people in order Skills to complete the subtasks Interpersonal

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
м	innesota Pollution Control Agency	19. A	djust or repair UV disinfection u	nit and	d replace bulbs		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks		
Subtasks		Knowledge		Interpersonal Skills Attitudes	Identify the skills necessary for interacting with other people in order to complete the subtasks		

Subsurface Sewage Treatment System Professional Need-	
Minnesota Pollution Control Agency 20. Adjust or repair privy	
List sequenced order of steps to complete the master task Identify knowledge necessary to complete the subtasks A A B C D E Learning Objectives Learning Objectives	Describe how you must behave to complete the subtasks

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provide						
Minnesota Pollution Control Agency 21. Steam or jet building sewer, collection system, supply pipe, and						
	Control Agency		oution system			
A S	List sequenced order of steps to complete the master task	A B C D E	Identify knowledge necessary to complete the subtasks MPCA Requirements	Attitudes	Describe how you must behave to complete the subtasks	
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks	

A the master task the subtasks C	Subsurface Se	ewage Treatment System Professional	Need-to-Know: Service Provider
A the master task the subtasks C	Minnesota Pollution Control Agency	22. Adjust water table monitoring devi	ice
S C C C C C C C C C C C C C C C C C C C	List sequenced order of steps to complete the master task	Identify knowledge necessary to complete the subtasks MPCA Requirements A B C D E Learning Objectives	Signature Signat

	Subsurface Se	ewage	Treatment System Professional	Need	I-to-Know: Service Provider
	Minnesota Pollution Control Agency	23. A	djust monitoring well(s)		
Ś	A Verify Lids are On and Properly Secured		Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1970 subp.C(1) 7080.1970 subp.C(2) 7080.1970 subp.C(3) 7080.2450 subp.C(4) Total and the subtasks Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	d-to-Know: Service Provider
	Minnesota Pollution Control Agency	1. Clo	ose tank(s)		
sks	List sequenced order of steps to complete the master task A Verify Lids are On and Properly Secured	B C D E	Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1970 subp.C(1) 7080.1970 subp.C(2) 7080.1970 subp.C(3) 7080.2450 subp.C(4) 7080.2450 subp.3(C) Learning Objectives	Attitudes	Describe how you must behave to complete the subtasks
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Se	wage	Treatment System Professional	Need	I-to-Know: Service Provider
N	linnesota Pollution Control Agency	2. Re	store property		
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks
E C E F	Verify Controls Set in Appropriate Mode Verify Power is Available to Requiring Components Verify Lids are On and Properly Secured Gather & Store Tools Verify no Sewage is on Ground Surface Leave Documentation for Facility Owner Verifying Your Visit	B C D E	MPCA Requirements 7080.1970 subp.C(1) 7080.1970 subp.C(2) 7080.1970 subp.C(3) 7080.1970 subp.C(4) 7080.2450 subp.3(C)	Attitudes	
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks

	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
N	innesota Pollution Control Agency	3.Not	ify owner of necessary follow-up	, time	lines, and next visit		
			Identify owner of necessary follow-up Identify knowledge necessary to complete the subtasks MPCA Requirements 7080.1500 subp.6 Learning Objectives	Interpersonal Skills Attitudes	Ines, and next visit Describe how you must behave to complete the subtasks		

		wage	Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
	nesota Pollution ontrol Agency	A. De	eem overall system condition as	accep	otable or unacceptable				
	List sequenced order of steps to complete the master task Contact permitting authority		Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks				
S -		lge	Learning Objectives	Attitudes					
Subtasks		Knowledge		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks				

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Pollution Control Agency B. Submit reports to permitting authority and system owner						
	List sequenced order of steps to complete the master task Report sampling results		Identify knowledge necessary to complete the subtasks MPCA Requirements		Describe how you must behave to complete the subtasks	
E	Report operational observations Report system adjustments Report other management activities in compliance with local ordinances, management plan or operating permit Report any noncompliance to owner & LUG in writing	lge	Learning Objectives	Attitudes		
Subtasks		Knowledg		Interpersonal Skills	Identify the skills necessary for interacting with other people in order to complete the subtasks	

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Pollution Control Agency		C. Provide written reports of noncompliance to homeowner and local				
control	unit of government within 30 days					
	List sequenced order of steps to complete		Identify knowledge necessary to complete		Describe how you must behave to	
Δ	the master task Complete Form 1-2. System Evaluation		the subtasks MPCA Requirements		complete the subtasks	
~						
			Learning Objectives	S		
				qe		
				Attitude		
				tit		
				Ąt		
6)e				
Х.		²				
Subtasks		Knowledge			Identify the skills necessary for	
)te		\geq		40	interacting with other people in order to complete the subtasks	
nk		Ó		Skills	to complete the subtasks	
Ю		С С		Ϋ́		
		x		0)		
				a		
				UC		
				S.		
				ē		
				Interpersonal		
				te		

Subsurface Sewage Treatment System Professional Need-to-Know: Service Provider						
Minnesota Pollution Control Agency		D. Provide certified signature on all opearational status				
determinations and compliance management activities						
	List sequenced order of steps to complete the master task		Identify knowledge necessary to complete the subtasks		Describe how you must behave to complete the subtasks	
			MPCA Requirements			
			Learning Objectives	9S		
				ď€		
				tu		
				Attitude		
				\triangleleft		
		θ				
X S		ą				
Subtasks		Knowledge			Identify the skills necessary for	
ota		\sim			interacting with other people in order	
np		Ó			to complete the subtasks	
S		L L		Skills		
						
				ງສ		
				IO:		
				Sle		
				þe		
				er		
				Interpersonal		