

PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Form 1.1 Installation checklist: System evaluation.

A. Contact information

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_
Permits #: \_\_\_\_\_

Site address/county: \_\_\_\_\_
Mailing address: \_\_\_\_\_
Home Phone: \_\_\_\_\_ Cell phone: \_\_\_\_\_ Email: \_\_\_\_\_

Designer/Planner: \_\_\_\_\_ License #: \_\_\_\_\_
Phone #: \_\_\_\_\_ Cell phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Site Evaluator: \_\_\_\_\_ License #: \_\_\_\_\_
Phone #: \_\_\_\_\_ Cell phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Installer: \_\_\_\_\_ License #: \_\_\_\_\_
Phone #: \_\_\_\_\_ Cell phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

O&M Service Provider: \_\_\_\_\_ License #: \_\_\_\_\_
Phone #: \_\_\_\_\_ Cell phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Inspector(s): \_\_\_\_\_ License #: \_\_\_\_\_
Phone #: \_\_\_\_\_ Cell phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

B. Job Contracting

I. Design review (information collected obtained from design)

1. Plan provided \_\_\_\_\_ Yes \_\_\_\_\_ No
Approved \_\_\_\_\_ Draft \_\_\_\_\_ Includes special considerations \_\_\_\_\_
New construction \_\_\_\_\_ Repair \_\_\_\_\_

2. Plan complete \_\_\_\_\_ Yes \_\_\_\_\_ No
All components specified \_\_\_\_\_ Component size specified \_\_\_\_\_
Component location specified \_\_\_\_\_ Accessibility for maintenance specified \_\_\_\_\_
Components readily available \_\_\_\_\_

3. Soil and site evaluation report provided \_\_\_\_\_ Yes \_\_\_\_\_ No

4. Hydraulic loading specified \_\_\_\_\_ Yes \_\_\_\_\_ No
Design flow: \_\_\_\_\_ Gal. per day
Peak flow: \_\_\_\_\_

5. Organic loading specified \_\_\_\_\_ Yes \_\_\_\_\_ No
Residential (assumed) \_\_\_\_\_ Commercial (assumed) \_\_\_\_\_
Specification: \_\_\_\_\_ (mg/L or lbs. BOD/TSS/FOG per day)

6. Tank buoyancy calculation provided \_\_\_\_\_ Yes \_\_\_\_\_ No

7. Treatment train components (Check all that apply):

Tanks:

Septic/Trash/Processing (tank): \_\_\_\_\_ Pump: Timed dosed system: \_\_\_\_\_
Pump: Demand dosed system: \_\_\_\_\_ Holding tank: \_\_\_\_\_
Dosing tank(s): \_\_\_\_\_ Other: \_\_\_\_\_

Advanced treatment components:

Disinfection unit: \_\_\_\_\_ Aerobic treatment unit: \_\_\_\_\_
Constructed wetland: \_\_\_\_\_ Media filter: \_\_\_\_\_
Other: \_\_\_\_\_

Final treatment and dispersal components:

Trench/Bed - gravity: \_\_\_\_\_ Drip field: \_\_\_\_\_
Evapotranspiration bed: \_\_\_\_\_
Trench/Bed - Low pressure distribution: \_\_\_\_\_ Spray field: \_\_\_\_\_
Mound system: \_\_\_\_\_
Bottomless media filter: \_\_\_\_\_ Other: \_\_\_\_\_

Comments:

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## PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

### II. Site review

1. Site planning materials match/describe site  Yes  No
2. Planning materials describe a constructible treatment train  Yes  No  
 Treatment train components available  
 Plumbing stub-out elevation  Existing \_\_\_\_\_  From design \_\_\_\_\_
3. Owner interviewed during site/plan review  Yes  No
4. Site requires special construction considerations  Yes  No

### III. Bidding & contracting

1. Bid development  Yes  No  
 Cost estimation  Special equipment & installation considerations
2. Bid submitted (date): \_\_\_\_\_
3. Bid accepted (date): \_\_\_\_\_
4. Contract submitted (date): \_\_\_\_\_  
 Standard items  Exclusions  Change orders  Payment schedule
5. Contract accepted (date): \_\_\_\_\_

### C. System planning & installation

1. Construction scheduling completed (date): \_\_\_\_\_
2. Preconstruction site visit (date): \_\_\_\_\_
3. Installation started (date): \_\_\_\_\_
4. Complete installation checklists
 

<input type="checkbox"/> Pretreatment components	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Dosing system and controls	<input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Final treatment and dispersal component	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. Complete startup checklists
 

<input type="checkbox"/> Pretreatment components	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Dosing system and controls	<input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Final treatment and dispersal component	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6. Intermediate inspections  NA

<input type="checkbox"/> Type: _____	Name: _____	Date: _____	Time: _____
<input type="checkbox"/> Type: _____	Name: _____	Date: _____	Time: _____
<input type="checkbox"/> Type: _____	Name: _____	Date: _____	Time: _____
7. Final regulatory installation inspection Date: \_\_\_\_\_ Time: \_\_\_\_\_
8. Information provided to owner
 

<input type="checkbox"/> Final plans/As-built drawings	<input type="checkbox"/> Service policies/Warranties
<input type="checkbox"/> Operation and maintenance guidance	<input type="checkbox"/> Monitoring requirements/guidance
<input type="checkbox"/> Educational resources	<input type="checkbox"/> Authorization to operate wastewater treatment system
<input type="checkbox"/> Service provider contracts	
9. Overall final system condition
 

<input type="checkbox"/> Installation complete	<input type="checkbox"/> Landscaping needed
<input type="checkbox"/> Installation incomplete	<input type="checkbox"/> Startup needed

**Comments:**

  
  
  
  
  
  
  
  
  
  

**This report indicates the condition of the above wastewater treatment system at the time of the installation inspection.**

Final survey completed by: \_\_\_\_\_ Date: \_\_\_\_\_

PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Form 3.1. Installation checklist - Safety.

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_

Permit #: \_\_\_\_\_

Completed by: \_\_\_\_\_ Company: \_\_\_\_\_

- 1. Site-specific safety plan on file  Yes  No
- 2. First aid and emergency response
  - a.  First aid kit stocked and available on-site Location: \_\_\_\_\_
  - b.  Eye wash station available on-site Location: \_\_\_\_\_
  - c.  Bee sting kit available on-site Location: \_\_\_\_\_
  - d.  Fire extinguisher available on-site Location: \_\_\_\_\_
  - e.  Cell phone on site Number(s): \_\_\_\_\_  
 Cell phone on site verified
  - f. Emergency phone numbers:
    - Local Hospital: \_\_\_\_\_
    - Fire Department: \_\_\_\_\_
    - Utilities: Power: \_\_\_\_\_ Water: \_\_\_\_\_  
Cable: \_\_\_\_\_ Phone: \_\_\_\_\_  
Gas: \_\_\_\_\_ Other: \_\_\_\_\_
- 3. Personal protection
  - a. Equipment (indicate all PPEs in use):
    - Steel-toe boots  Protective clothing  Hard hats
    - Hearing protection  Eye protection  Face/mouth protection
    - High visibility vests
    - Gloves: Type:  Abrasion resistant  Liquid resistant
  - b. Personal hygiene
    - Toilets available
    - Hand wash station with soap and water  Waterless hand sanitizer
- 4. General site hazards
  - a.  Cell phone/personal music device policy in effect
  - b. Vegetation (Trees and plants)
    - Dead limbs/trees (widow makers)
    - Overhead limbs
    - Hazards in trees: insects, animals, vines, poison ivy, etc.
    - Poison oak
    - Poison ivy
    - Ground clear of vines and low vegetation
  - c. Weather conditions
    - Rainfall within 24 hours: \_\_\_\_\_ inches
    - Other conditions of concern: \_\_\_\_\_
  - d. Utilities
    - i. Electrical  Locate company called  Locate performed Confirmation #: \_\_\_\_\_  
 No overhead power lines
    - ii. Telephone  Locate company called  Lines located
    - iii. Cable  Locate company called  Lines located
    - iv. Water  Shut-off located  Lines located
    - v. Other: \_\_\_\_\_

Comments:

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5. Transportation

- a.  Daily inspection sheets completed for the following vehicles and trailers (list):

\_\_\_\_\_

\_\_\_\_\_

- b.  Driver has valid CDL

6. Equipment/operators (on-site)

- a.  Daily inspection sheets completed for the following equipment (list):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- b.  Operator certified

- c. Safety equipment (indicate all that apply):

- Back-up horn     Deadman switch     Belt guards     GFCI protection

7. Excavation

- a. Depth

- Depth less than 4'

- Depth greater than 4':

- Competent person present (name): \_\_\_\_\_

- Soil analysis performed

OSHA Type	Soil Type	Indicators	Comp. strength (tsf)
<input type="checkbox"/> Type A	<input type="checkbox"/> Rocky <input type="checkbox"/> Clay <input type="checkbox"/> Silty clay <input type="checkbox"/> Sandy clay <input type="checkbox"/> Clay loam	<input type="checkbox"/> Not fissured <input type="checkbox"/> Not disturbed <input type="checkbox"/> No layers that are not Type A <input type="checkbox"/> Not subject to vibration	≥1.5:1 tsf  <input type="checkbox"/> Tested Method:_____
<input type="checkbox"/> Type B	<input type="checkbox"/> Silt <input type="checkbox"/> Silty loam <input type="checkbox"/> Sandy loam <input type="checkbox"/> Crushed rock	<input type="checkbox"/> Previously disturbed - Not Type C <input type="checkbox"/> Fissured Type A <input type="checkbox"/> Subject to vibration Type A <input type="checkbox"/> Type A unstable rock	>0.5 tsf <i>and</i> < 1.5 tsf <input type="checkbox"/> Tested Method:_____
<input type="checkbox"/> Type C	<input type="checkbox"/> Gravel <input type="checkbox"/> Sand <input type="checkbox"/> Loamy sand	<input type="checkbox"/> Fissures <input type="checkbox"/> Porous soil <input type="checkbox"/> Vibration <input type="checkbox"/> Water freely seeping <input type="checkbox"/> Submerged soil <input type="checkbox"/> Submerged unstable rock	≤0.5 tsf  <input type="checkbox"/> Tested Method:_____

Comments:

- b. Protective system:

- NA (less than 4')

- Shoring

- NA (4-5 feet in stable soil)

- Shielding

- Sloping

- Benching

- c. Egress present:

- NA (less than 4')

- Ramps     Ladder(s) 3' higher than (one rung above) surface

- d. Stability of adjacent structures (undercutting):

- N.A.

- Support system in place

- Excavation in stable rock

- Registered professional engineer verification of no risk (Seal)

Engineer: \_\_\_\_\_ License No. \_\_\_\_\_

Date of inspection: \_\_\_\_\_

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- e. Water accumulation
  - N.A. (No water)  Water removal (Dewatering)
  - Use of protective systems  Safety harness/lifeline
- f. Clear line of site (protection in place):
  - Guardrails  Fences  Barricades  Stop logs  Cover
  - Other: \_\_\_\_\_
- g. Excavated material:
  - N.A.  Spoil pile two feet back from excavation  Scaling
- h. Re-inspection required (indicate reasons for re-inspection):
  - NA  Rainstorm  Excessive traffic
  - Other: \_\_\_\_\_
- 8. Confined space
  - a. Hazardous atmospheres:
    - N.A.: (Oxygen >19.5%, Depth < 4 feet, No flammable gas)
    - Confined space (O<sub>2</sub> testing) (If no testing, 1 ½:1 ratio sloping required)
  - b. Emergency rescue equipment
    - Breathing apparatus  Safety harness and line  Basket stretcher
- 9. Materials hazards
  - MSDS Sheets for all materials on-site and accessible
- 10. Ground surface spill response
  - NA  Barricade/physical barrier  Lime applied
  - Regulatory authority notified (indicate agency): \_\_\_\_\_
- 11. Additional safety hazards identified:
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_
  - \_\_\_\_\_  Crew notified Date: \_\_\_\_\_

**Comments:**

OSHA: Occupational Safety and Health Administration  
PPE: Personal protective equipment  
CDL: Commercial driver's license  
MSDS: Material safety data sheet  
tsf: tons per square foot

PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Form 6.1 Installation checklist: Planning.

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_
Permit(s) #: \_\_\_\_\_
Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

1. Initial design/plan review (office):

- a. Plan provided [ ] Yes [ ] No
[ ] Approved [ ] Draft [ ] Includes special considerations
b. Plan complete [ ] Yes [ ] No
[ ] All components specified [ ] Component size specified
[ ] Component location specified [ ] Maintainability of components
c. Soil and site evaluation report attached [ ] Yes [ ] No
d. Hydraulic loading specified [ ] Yes [ ] No
Design flow: \_\_\_\_\_ gal per day
Peak flow: \_\_\_\_\_
e. Organic loading specified [ ] Yes [ ] No
[ ] Residential (assumed) \_\_\_\_\_ [ ] Commercial (assumed)
[ ] Specification: \_\_\_\_\_ (mg/L or lbs. BOD/TSS/FOG per day)
f. Tank buoyancy calculation provided [ ] Yes [ ] No

Comments:

g. Treatment train components:

Tanks:

- [ ] Septic/Trash/Processing (tank): \_\_\_\_\_ [ ] Pump: Timed dosed system: \_\_\_\_\_
[ ] Pump: Demand dosed system: \_\_\_\_\_ [ ] Holding tank: \_\_\_\_\_
[ ] Dosing tank(s): \_\_\_\_\_ [ ] Other: \_\_\_\_\_

Advanced treatment components:

- [ ] Disinfection unit: \_\_\_\_\_ [ ] Aerobic treatment unit: \_\_\_\_\_
[ ] Constructed wetland: \_\_\_\_\_ [ ] Media filter: \_\_\_\_\_
[ ] Other: \_\_\_\_\_

Final treatment and dispersal components:

- [ ] Trench/Bed - gravity: \_\_\_\_\_ [ ] Drip field: \_\_\_\_\_
[ ] Evapotranspiration bed: \_\_\_\_\_
[ ] Trench/Bed - Low pressure distribution: \_\_\_\_\_ [ ] Spray field: \_\_\_\_\_
[ ] Mound system: \_\_\_\_\_
[ ] Bottomless media filter: \_\_\_\_\_ [ ] Other: \_\_\_\_\_

h. Electrical service

- [ ] Single-phase 120V [ ] Single-phase 240V
[ ] 3-phase 240/120V [ ] 3-phase 208/120V

- i. Is design constructible? [ ] Yes [ ] No
[ ] Treatment train components available

2. Site review (at site with plan)

- a. Planning document matches site [ ] Yes [ ] No
b. Topography evaluation
i. Does topography limit construction? [ ] Yes [ ] No
ii. Intended area for treatment system is:
[ ] Water shedding [ ] Water gathering
c. Drainage: [ ] Surface/gravity [ ] Subsurface/gravity [ ] Subsurface/pump

Comments:

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- d. Monitoring well present  NA  Yes  No
- e. Drinking water source identified  NA  Yes  No
- f. Existing improvement constraints  NA  Yes  No  
if yes, please describe: \_\_\_\_\_
- g. Vegetation / Obstruction management  Yes  No  
if yes, please describe: \_\_\_\_\_
- h. Tree/landscaping removal requirements  Yes  No  
if yes, please describe: \_\_\_\_\_
- i. Soil condition limitations  Yes  No  
if yes, please describe: \_\_\_\_\_
- j. Soil treatment area(s) clearly marked & protected
- k. Plumbing stub-out elevation  Existing \_\_\_\_\_  From design \_\_\_\_\_
- l. Site layout allows for:
  - Construction access
  - Maintenance access
  - Topography does not hamper construction
  - Horizontal separations match design
  - Vertical separations match design
  - Components/parts located in traffic zones
 If no, please describe: \_\_\_\_\_
- m. Electrical service verified  Yes  No
- 3. Owner interview during site/plan review
  - a. Homeowner preliminary meeting conducted (date):
  - b. Proposed surface improvements identified?
    - Driveways  Buildings  Garden
    - Irrigation system  Landscaping plan  Swimming pools
    - Stormwater plan  Rainwater harvesting  Livestock
    - Other: \_\_\_\_\_
  - c. Limit of disturbance described
  - d. Spoil and construction debris management discussed
  - e. Identification of neighbors for communication  Yes  No
  - f. Return visit for final site grading  Yes  No
  - g. O&M and monitoring requirements  Yes  No
  - h. Abandonment of existing components  NA  Yes  No  
if yes, please describe: \_\_\_\_\_
  - i. Replacement of existing improvements  NA  Yes  No  
if yes, please describe: \_\_\_\_\_
- 4. Components of a bid
  - a. Material take-off  Yes  No
  - b. Material source identification & costs  Yes  No
  - c. Site restoration requirements  Yes  No
  - d. Special equipment required  Yes  No
  - e. Subcontractors  Yes  No
  - f. Regulatory issues  Yes  No

**Comments:**

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

- g. Other site specific items  Yes  No
- h. Bonding/Insurance requirements  Yes  No
- i. Payment plan specified  Yes  No
  
- 5. Construction planning:
  - a. Permits received:
    - Type: \_\_\_\_\_ Permit #: \_\_\_\_\_
    - Type: \_\_\_\_\_ Permit #: \_\_\_\_\_
    - Type: \_\_\_\_\_ Permit #: \_\_\_\_\_
  - b. Scheduled date for installation:
  - c. Utilities line locate ordered
  - d. Inspection(s) scheduled
  - e. Scheduling of other professionals
    - Site clearing
    - Electrician
    - Excavation
    - Irrigation
    - Fencing
    - Pumping
    - Spoil removal
    - Soil/gravel delivery
    - Landscaper
    - Surveyor
    - Crane/lifting contractor
    - Pot-holing contractor
    - Arborist
    - Other: \_\_\_\_\_
  - f. Cooperation/scheduling with other trades  Yes  No
  - g. Component preassembly required  Yes  No
  - h. Have components been ordered  Yes  No
  - i. Site specific safety plan developed  Yes  No
  - j. Bonding/insurance secured  Yes  No
  - k. Payment plan implemented  Yes  No
  
- 6. Construction staging:
  - a. Utilities line located   
Confirmation number(s): \_\_\_\_\_ Date: \_\_\_\_\_
  - b. Materials storage area clearly defined
  - c. Spoils collection area defined
  - d. Water available at construction site  Yes  No
  - e. Electricity present for testing components  Yes  No
  - f. Weather forecast for installation day
  - g. Are all components and tools available  Yes  No
  
- 7. Job scheduling:
  - a. Construction notification to local regulatory entity   NA
  - b. Utility marking still valid
  - c. Needed equipment available for site
  - d. Construction materials available for site
  - e. Equipment secured for transport to site
  - f. Personnel available for construction
  - g. Weather conditions appropriate for construction

**Comments:**



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- 8. Job staging
  - a. Bench mark identified
  - b. Property lines identified
  - c. Utility location verified
  - d. Topography/drainage pattern verified
  - e. Plumbing stub-out elevation verified at \_\_\_\_\_
  - f. System components staked out and verified
  - g. Horizontal set-backs verified 
    - Private wells \_\_\_\_\_ ft     Water lines \_\_\_\_\_ ft     Sharp slopes \_\_\_\_\_ ft
    - Public wells \_\_\_\_\_ ft     Easements \_\_\_\_\_ ft     Surface water \_\_\_\_\_ ft
    - Property lines \_\_\_\_\_ ft     Structures \_\_\_\_\_ ft     Swimming pools \_\_\_\_\_ ft
    - Wetlands \_\_\_\_\_ ft
    - Other: \_\_\_\_\_
- 9. Final inspection plan: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

**Form 8.1 Installation checklist: Piping.**

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_

Permit(s) #: \_\_\_\_\_

Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

1. Plumbing piping (stub-out)

- a. Type \_\_\_\_\_
- b. Diameter \_\_\_\_\_ in.
- c. Elevation \_\_\_\_\_
- d. Cleanouts  Yes  No
- e. Connection method to piping \_\_\_\_\_
- f. Flow  Gravity  Pressure  Combination

2. Pipe to first tank (building sewer)

- a. Type \_\_\_\_\_
- b. Diameter \_\_\_\_\_ in.
- c. Total length \_\_\_\_\_ ft.
- d. Cleanouts  Yes  No
  - i. Method:  Single direction  Two directional
  - ii. Number: \_\_\_\_\_
- e. Elevation
  - i. Flow  Gravity  Pressure  Combination
  - ii. Beginning: \_\_\_\_\_
  - iii. Entering tank: \_\_\_\_\_
  - iv. Slope  1" in 8'  1" in 4'  Other \_\_\_\_\_
  - v. Slope break in pipe  NA
    - A. Elevation drop \_\_\_\_\_ in.
    - B. Method of grade adjustment \_\_\_\_\_
    - C. Number of grade adjustments \_\_\_\_\_
    - D. Cleanout at top of grade adjustment
- f. Insulated  NA  Yes, method: \_\_\_\_\_
- g. Pipe cutting
  - i. Method:  PVC pipe cutter  Hand saw  Chop saw
  - ii. Cuts do not compromise diameter
  - iii. Cut ends:
    - A. Cut square
    - B. Free of ridges
    - C. Deburred
    - D. Beveled
- h. Embedment method
  - i. Foundation  NA
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - ii. Bedding
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - iii. Haunching
    - A. Material: \_\_\_\_\_

**Comments:**

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- B. Depth: \_\_\_\_\_
  - C. Compaction method: \_\_\_\_\_
  - iv. Initial backfill
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - v. Final backfill
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - i. Connections
    - i. Method:  Solvent weld     Threaded     Mechanical joints  
 Gasket    Other: \_\_\_\_\_
    - ii. If solvent weld:
      - A. Weather conditions: \_\_\_\_\_
      - B. Primer used  
Brand/type: \_\_\_\_\_
      - C. Glue  
Brand/type: \_\_\_\_\_  
Set/cure time: \_\_\_\_\_
      - D. Appropriate glue used for pipe  
specifications and weather conditions
    - iii. If threaded connection:
      - A. Thread connection tape used
      - B. Method used to tighten: \_\_\_\_\_
  - j. Pressure tested  NA     Yes
3. Pipe between tanks
- a. Type: \_\_\_\_\_
  - b. Diameter: \_\_\_\_\_ in.
  - c. Total length: \_\_\_\_\_ ft.
  - d. Cleanouts  Yes     No
    - i. Method  Single direction     Two directional
    - ii. Number: \_\_\_\_\_
  - e. Elevation
    - i. Flow  Gravity     Pressure     Combination
    - ii. Exiting tank: \_\_\_\_\_
    - iii. Entering tank: \_\_\_\_\_
    - iv. Slope  1" in 8'     1" in 4'     Other: \_\_\_\_\_
    - vi. Slope break in pipe  NA
      - A. Elevation drop: \_\_\_\_\_ in.
      - B. Method of grade adjustment: \_\_\_\_\_
      - C. Number of grade adjustments: \_\_\_\_\_
      - D. Cleanout at top of grade adjustment
  - f. Insulated  NA     Yes, method: \_\_\_\_\_
  - g. Pipe cutting
    - i. Method:  PVC pipe cutter     Hand saw     Chop saw
    - ii. Cuts do not compromise diameter
    - iii. Cut ends:
      - A. Cut square
      - B. Free of ridges
      - C. Deburred
      - D. Beveled

**Comments:**

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- h. Embedment method
    - i. Foundation  NA
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - ii. Bedding
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - iii. Haunching
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - iv. Initial backfill
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - v. Final backfill
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
  - i. Connections
    - i. Method:  Solvent weld  Threaded  Mechanical joints  
 Gasket  Other: \_\_\_\_\_
    - ii. If solvent weld:
      - A. Weather conditions \_\_\_\_\_
      - B. Primer used   
Brand/type: \_\_\_\_\_
      - C. Glue \_\_\_\_\_  
Brand/type: \_\_\_\_\_  
Set/cure time: \_\_\_\_\_
      - D. Appropriate glue used for pipe specifications and weather conditions
    - iii. If threaded connection:
      - A. Thread connection tape used
      - B. Method used to tighten \_\_\_\_\_
4. Pipe to final treatment and dispersal
- a. Type \_\_\_\_\_
  - b. Diameter \_\_\_\_\_ in.
  - c. Total length \_\_\_\_\_ ft
  - d. Cleanouts  Yes  No
    - i. Method:  Single direction  Two directional
    - ii. Number: \_\_\_\_\_
  - e. Elevation
    - i. Flow  Gravity  Pressure  Combination
    - ii. Exiting tank: \_\_\_\_\_
    - iii. Entering tank: \_\_\_\_\_
    - iv. Slope  1" in 8'  1" in 4'  Other: \_\_\_\_\_
    - v. Slope break in pipe  NA
      - A. Elevation drop \_\_\_\_\_ in.
      - B. Method of grade adjustment \_\_\_\_\_
      - C. Number of grade adjustments \_\_\_\_\_
      - D. Cleanout at top of grade adjustment

**Comments:**

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

- f. Insulated  NA  Yes, method: \_\_\_\_\_
  - g. Pipe cutting
    - i. Method:  PVC pipe cutter  Hand saw  Chop saw
    - ii. Cuts do not compromise diameter
    - iii. Cut ends:
      - A. Cut square
      - B. Free of ridges
      - C. Deburred
      - D. Beveled
  - h. Embedment method
    - i. Foundation  NA
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - ii. Bedding
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - iii. Haunching
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - iv. Initial backfill
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
    - v. Final backfill
      - A. Material: \_\_\_\_\_
      - B. Depth: \_\_\_\_\_
      - C. Compaction method: \_\_\_\_\_
  - i. Connections
    - i. Method:  Solvent weld  Threaded  Mechanical joints  
 Gasket Other: \_\_\_\_\_
    - ii. If solvent weld:
      - A. Weather conditions \_\_\_\_\_
      - B. Primer used   
Brand/type: \_\_\_\_\_
      - C. Glue \_\_\_\_\_  
Brand/type: \_\_\_\_\_  
Set/cure time: \_\_\_\_\_
      - D. Appropriate glue used for pipe specifications and weather conditions
    - iii. If threaded connection:
      - A. Thread connection tape used
      - B. Method used to tighten \_\_\_\_\_
  - j. If pressure, thrust blocks used  NA  Yes  No
  - k. Sleeved in larger diameter pipe  NA  Yes, Type: \_\_\_\_\_
  - l. Pressure tested  NA  Yes
5. Recirculation or return pipe
- a. Type \_\_\_\_\_
  - b. Diameter \_\_\_\_\_ in.
  - c. Total length \_\_\_\_\_ ft
  - d. Cleanouts  Yes  No

**Comments:**

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

- i. Method  Single direction  Two directional
- ii. Number: \_\_\_\_\_
- e. Elevation
  - i. Flow  Gravity  Pressure  Combination
  - ii. Exiting tank: \_\_\_\_\_
  - iii. Entering tank: \_\_\_\_\_
  - iv. Slope  1" in 8'  1" in 4'  Other: \_\_\_\_\_
- f. Insulated  NA  Yes, method: \_\_\_\_\_
- g. Pipe cutting
  - i. Method:  PVC pipe cutter  Hand saw  Chop saw
  - ii. Cuts do not compromise diameter
  - iii. Cut ends:
    - A. Cut square
    - B. Free of ridges
    - C. Deburred
    - D. Beveled
- h. Embedment method
  - i. Foundation  NA
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - ii. Bedding
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - iii. Haunching
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - iv. Initial backfill
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
  - v. Final backfill
    - A. Material: \_\_\_\_\_
    - B. Depth: \_\_\_\_\_
    - C. Compaction method: \_\_\_\_\_
- i. Connections
  - i. Method:  Solvent weld  Threaded  Mechanical joints  
 Gasket Other: \_\_\_\_\_
  - ii. If solvent weld:
    - A. Weather conditions \_\_\_\_\_
    - B. Primer used   
Brand/type: \_\_\_\_\_
    - C. Glue \_\_\_\_\_  
Brand/type: \_\_\_\_\_  
Set/cure time: \_\_\_\_\_
    - D. Appropriate glue used for pipe specifications and weather conditions
  - iii. If threaded connection:
    - A. Thread connection tape used
    - B. Method used to tighten \_\_\_\_\_

**Comments:**

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

**Form 8.2. Installation checklist: Tanks**

Form \_\_\_\_\_ of \_\_\_\_\_

Note: A separate checklist should be included for each tank installed.

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_

Permit(s) #: \_\_\_\_\_

Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

**1. Tank description**

**a. Type of tank:**

- Septic tank       Trash tank       Grease trap       Processing tank  
 Holding tank       Pump tank       Siphon tank  
 Surge/Flow equalization tank       Recirculation tank

**b. Manufacturer:** \_\_\_\_\_  
**Model #:** \_\_\_\_\_

**c. Material:**

- Concrete       Fiberglass       Plastic/Poly  
 Other: \_\_\_\_\_

**d. Manufacturer's load-bearing rating:** \_\_\_\_\_ (psf or maximum burial depth)

**e. Tank dimensions and capacities:**

Exterior dimensions: \_\_\_\_\_ Interior dimensions: \_\_\_\_\_

Exterior height of inlet invert: \_\_\_\_\_

Exterior height of outlet invert: \_\_\_\_\_

Effective depth: \_\_\_\_\_ in. Total tank capacity: \_\_\_\_\_ gal

Gallons per inch (gpi): \_\_\_\_\_ gal/in.

Compartmented:  NA  Yes  No

Capacities of compartments: 1) \_\_\_\_\_ gal 2) \_\_\_\_\_ gal

If compartmented dosing tank, wall rated:  NA  Yes  No

Multiple tanks:  NA  Yes  No

Capacities of multiple tanks: 1) \_\_\_\_\_ gal 2) \_\_\_\_\_ gal

**f. Tank seam**

Location:  NA  Mid  Top

Sections joined:

Pre-delivery by supplier       Onsite by supplier       Onsite by installer

Tank sealant(s) used:

- Butyl mastic       Butyl tapes wrap       Two-part epoxy  
 Two-part epoxy and stainless fasteners       Other: \_\_\_\_\_

**g.**  Tank structural integrity verified prior to setting

**2. Excavation/ Setting tank**

**a.** Stake location of tank(s)

**b.** Verify required inlet/outlet elevations

**c.** Water present in excavation  Yes  No

If yes, dewatering performed during construction

**d.** Bottom of excavation Elevation: \_\_\_\_\_ ft

Level       Free of rock or debris

**e.** Bedding material  NA

Description: \_\_\_\_\_ Depth: \_\_\_\_\_ in.

Free of clods, large rocks, frozen matter and debris

If washed rock bedding, migration of fines has been managed

Compacted  NA  Yes  No

**f.** Tank oriented correctly

**g.** Structural integrity of tank verified

**h.** Tank installed level  Yes  No

**Comments:**  
 (Indicate if  
 photographs were  
 taken)

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

3. Insulation  NA
- Tank Type: \_\_\_\_\_
- Access riser Type: \_\_\_\_\_
- Lid Type: \_\_\_\_\_
4. Floatation (buoyancy) prevention
- a. Buoyancy calculation provided on design  Yes    No
- b. Anti-floatation implemented:  NA    Yes    No
- Tank collar
- Dead man
- Other: \_\_\_\_\_
5. Backfill
- a. Backfill material: \_\_\_\_\_
- If washed rock backfill, migration of fines has been managed
- b. Compacted  NA    Yes    No
- c. Free of clods, large rocks, frozen matter and debris  Yes    No
6. Piping
- a. Piping in appropriate sequence (inlet/outlet)  Yes    No
- b. Pipe specifications (material and nominal diameter)
- Inlet:
- Outlet/Supply line:  NA (Holding tank)
- Return line:  NA
- Electrical conduit:  NA
- c. Joints in excavated area  Yes    No
- d. Pipes appropriately sleeved in excavated area  NA    Yes    No
- Type of sleeve: \_\_\_\_\_
- e. Piping sealed (including electrical conduit)  Yes    No
- Type of sealant: \_\_\_\_\_
- Inlet: \_\_\_\_\_
- Outlet/Supply line: \_\_\_\_\_
- Return line:  NA
- Electrical conduit:  NA
- f. Recirculation device  NA    Yes    No
- Type of device: \_\_\_\_\_
7. Baffles/compartments/vaults
- a. Inlet baffle
- i. Type
- NA       Sanitary tee       Plate       Wall
- ii. Installation by
- Manufacturer       Contractor
- b. Outlet baffle
- i. Type
- NA       Pipe tee or sanitary tee       Plate       Effluent screen
- Model: \_\_\_\_\_
- Manufacturer: \_\_\_\_\_
- ii. Installation by
- Manufacturer       Contractor
- c. Compartment baffles:
- i. Type
- NA       Tee baffle       Slot       Center hole
- ii. Installation by:
- Manufacturer       Contractor
- iii.  Verify air passage

**Comments:** (Indicate if photographs were taken)



**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

- d. Solids management  NA  
 Type: \_\_\_\_\_  
 Shield  Vault with basket  Vault with screen  
 Manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_
8. Tank access and venting
- a. Access location and size (diameter and depth):  
 Inlet: \_\_\_\_\_  
 Outlet: \_\_\_\_\_  
 Center: \_\_\_\_\_
- b. Access risers and associated lids  Yes  No  
 Riser manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_  
 Lid manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_  
 Traffic rated (AASHTO H-20/HS-20)  Yes  No  
 Interior access:  Second lid  Grate  Netting  NA
- c. Installation  
 Cast in place  
 Installed by tank manufacturer  
 Installed on the site by the contractor
- d. Sealant used in tank/riser connections  NA  Yes  No  
 Type of sealant: \_\_\_\_\_
- e. Venting  
 Through plumbing stack  
 Tank vent (describe): \_\_\_\_\_  
 Proprietary filter:  
 Filter manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_
9. Tank watertightness testing:  
 Not required  
 Manufacturer-tested  
 Field tested  
 Method:  Water  Vacuum  
 Results:  Pass  Fail
10. Septic tank/grease trap/holding tank alarm(s)  NA
- a. High-water alarm(s) present  Yes  No  
 Mechanical non-powered alarm  
 Electrical powered alarm  
 Manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_
- b. Remote telemetry  Yes  No  
 Manufacturer: \_\_\_\_\_  
 Model #: \_\_\_\_\_
11. Final cover
- a. Material: \_\_\_\_\_
- b. Sloped to allow for settling and shedding water  Yes  No
12. Site stabilization  
 Erosion control measures in place  Topsoil dressed  
 Seeded  Mulched

**Comments:** (Indicate if photographs were taken)

PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Form 8.3 Startup checklist: Tanks

Form \_\_\_\_\_ of \_\_\_\_\_

Note: A separate checklist should be included for each tank installed.

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_

Permit(s) #: \_\_\_\_\_

Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

1. Tank description

a. Type of tank:

- Septic tank       Trash tank       Holding tank       Processing tank
- Pump tank       Siphon tank       Surge/flow equalization tank
- Grease trap       Recirculation tank

b. Manufacturer: \_\_\_\_\_

Model #: \_\_\_\_\_

c. Material

- Concrete       Fiberglass       Plastic/Poly
- Other: \_\_\_\_\_

d. Manufacturer's load-bearing rating: \_\_\_\_\_ (psf or maximum burial depth)

e. Tank inside dimensions: \_\_\_\_\_

f. Compartmented:

Capacities of compartments:       NA       Yes       No  
 1) \_\_\_\_\_ gal      2) \_\_\_\_\_ gal

If compartmented dosing tank, wall rated       NA       Yes       No

g. Multiple tanks

Capacities for multiple tanks:       NA       Yes       No  
 1) \_\_\_\_\_ gal      2) \_\_\_\_\_ gal

h. Total capacity: \_\_\_\_\_ gal

i. Tank effective depth: \_\_\_\_\_ in.

j. Gallons per inch (gpi): \_\_\_\_\_ gal/in.

k. Sealant visible in tank seams:       NA       Yes       No

l. Tank level       Yes       No

m. Watertightness testing certification       NA       Yes       No

2. Tank access

a. Access location:       Inlet       Outlet       Center

b. Tank access located at grade       Yes       No

If 'No', depth below grade: \_\_\_\_\_ in.

c. Risers on tank       Yes       No

Riser manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Lid manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Interior access:       Second lid       Grate       Netting       NA

Traffic rated (AASHTO H-20/HS-20)       Yes       No

Diameter: \_\_\_\_\_

Depth: \_\_\_\_\_

d. Lids secure       Yes       No

e. Lids in operable condition       Yes       No

3. Venting:

a. Tank vents to:

- House plumbing stack       Vent on tank
- Access riser       Lid

b. Air passage is clear       Yes       No

Comments:

Large empty rectangular box for handwritten comments.

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

4. Baffles/compartments/vaults
- a. Inlet baffle in place/accessible:  NA  Yes  No  
 Depth from bottom of baffle to tank bottom: \_\_\_\_\_ in.  
 If plate, clearance between pipe and baffle: \_\_\_\_\_ in.
- b. Outlet baffle in place/accessible  NA  Yes  No  
 Depth from bottom of baffle to tank bottom: \_\_\_\_\_ in.  
 If plate, clearance between pipe and baffle: \_\_\_\_\_ in.  
 If effluent screen:  
 Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_
- c. Compartment baffle/slot in place  NA  Yes  No  
 If baffle, is it accessible?  Yes  No
- d. Pump vault  NA  
 Vault with basket  
 Vault with screen  
 Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_
5. Insulation  NA  
 Access riser  Lid
6. Piping
- a. Piping in appropriate sequence/slope (inlet/outlet)  Yes  No
- b. Pipe type entering tank: \_\_\_\_\_
- c. Pipe type exiting tank: \_\_\_\_\_  NA (Holding tank)
- d. Pipe penetrations sealed (including electrical conduit)  Yes  No
7. Tank operating conditions
- a. Liquid level in tank: \_\_\_\_\_ in.
- b. Relative to:  Inlet invert  Outlet invert  Alarm activation level  
 Level is:  At  Above  Below
8. Septic tank/grease trap/holding tank alarm(s)
- a. Alarm(s) present  NA  Yes  No  
 Audible alarm operational  
 Visible alarm operational  
 Alarm activation depth: (measured from invert of tank inlet): \_\_\_\_\_ in.  
 Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_
- b. Remote telemetry operational  NA  Yes  No  
 Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_
- Note: if land line used, it must be/remain active for remote alarm to be operational.*
9. Final cover
- a. Depth to top of tank: \_\_\_\_\_ in.  
 Does not exceed maximum specification
- b. Material: \_\_\_\_\_
- c. Sloped to allow for settling and shedding water  Yes  No
10. Site stabilization
- Erosion control measures in place  
 Topsoil dressed  
 Seeded  
 Mulched

**Comments:**

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

**Form 9.1 Installation checklist: Demand/timed dosed pumps and siphons**

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_  
Permit(s) #: \_\_\_\_\_  
Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

System type:     Pump     Siphon

1. Control type:  
 Piggyback     Control panel     Siphon counter  
a. Panel     NA     Yes     No  
    Manufacturer: \_\_\_\_\_  
    Model: \_\_\_\_\_  
     NEMA 4X Panel rating  
    Elapsed time meter     NA     Yes     No  
    Cycle counter     NA     Yes     No  
b. Timer  
    Manufacturer: \_\_\_\_\_  
    Model: \_\_\_\_\_  
c. Telemetry     NA     Yes     No  
    Manufacturer: \_\_\_\_\_  
    Model: \_\_\_\_\_
2. Pump     NA     Yes     No  
a. Pump manufacturer: \_\_\_\_\_  
    Model: \_\_\_\_\_  
b. Type of pump:     Multi-stage     Single-stage  
                           Sewage     Effluent     Grinder  
c. Pump specifications:  
    i. Design flow rate: \_\_\_\_\_ gpm  
    ii. Design pressure (TDH): \_\_\_\_\_ ft  
    iii. Horsepower: \_\_\_\_\_ hp  
d. Pump installed under access     Yes     No  
e. Pump intake elevated:    Height \_\_\_\_\_ inches     Yes     No  
f. Pump removal  
     Pull chain or rope installed     Pump rails installed  
     Other: \_\_\_\_\_  
g. Pump vault flow rating: \_\_\_\_\_ gpm
3. Siphon     NA     Yes     No  
a. Siphon manufacturer: \_\_\_\_\_  
    Model: \_\_\_\_\_  
b. Siphon capacity: \_\_\_\_\_ gpm  
c. Siphon installed under access     Yes     No  
d. Siphon removable     Yes     No  
e. Siphon cycle counter installed     NA     Yes     No
4. Pump discharge assembly  
a. Quick disconnect     Installed  
    Type of disconnect: \_\_\_\_\_  
    Accessible from surface  
b. Isolation valve     Installed     NA  
    Type of valve: \_\_\_\_\_  
c. Anti-siphon/air release device     Installed     NA  
     Air release hole between check valve and pump discharge  
     Reversed check valve at high point in assembly  
     Spit tube  
d. Drainback allowed     Yes     No

**Comments:**



PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Form 9.2. Startup checklist: Timed and demand dosed pumps and siphons.

Client name: \_\_\_\_\_ Reference #: \_\_\_\_\_

Permit(s) #: \_\_\_\_\_

Completed by: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

System type:  Pump  Siphon

- 1. Controls  NA
  - a. Type:  Piggyback  Control panel  
Manufacturer: \_\_\_\_\_  
Model: \_\_\_\_\_
  - b. Installation check
    - Enclosure watertight
    - Enclosure rated NEMA 4X
    - Alarm test switch working properly  NA
    - Control switch (HAND-OFF-AUTO) operable  NA
    - Control switch (HAND-OFF-AUTO) set at:
      - Auto
      - Hand/Manual Why: \_\_\_\_\_
      - Off Why: \_\_\_\_\_
    - Timer operable  NA  
Timer setting: On Mode setting \_\_\_\_\_ min.  
Off Mode setting \_\_\_\_\_ min. or hr.
    - Elapsed time meter (ETM) operable  NA  
Meter reading: \_\_\_\_\_
    - Cycle counter operable  NA  
Counter reading: \_\_\_\_\_
    - Telemetry operable  NA
- 2. Pump
  - a. Pump manufacturer: \_\_\_\_\_  
Model: \_\_\_\_\_
  - b. Type of pump:  Multi-stage  Single-stage  
 Sewage  Effluent  Grinder
  - c. Pump specifications:
    - i. Design flow rate: \_\_\_\_\_ gpm
    - ii. Design pressure (tdh): \_\_\_\_\_ ft
    - iii. Horsepower: \_\_\_\_\_ hp
  - d. Pump operable  Yes  No
  - e. Pump intake elevated: Height \_\_\_\_\_ in.  Yes  No
  - f. Pump installed under access  Yes  No
  - g. Pump removal
    - Pull chain or rope installed  Pump rails installed
    - Other: \_\_\_\_\_
  - h. Pump vault flow rating: \_\_\_\_\_ gpm  NA
  - i. Electrical considerations (PERFORMED BY QUALIFIED INDIVIDUALS ONLY)
    - Power supply available
    - Amps measured: \_\_\_\_\_ amps
    - Voltage measured: \_\_\_\_\_ volts
    - Electrical service
    - Single-phase 120V  Single-phase 240V

Comments:

**PASEO/PSMA Installation of Onsite Wastewater Systems Checklist**

- 3-phase 240/120V       3-phase 208/120V
- Power supply appropriate for unit
- Distance from control panel to disconnect: \_\_\_\_\_ ft

**Comments:**

- 3. Siphon  NA
  - a. Siphon operable  Yes    No
  - b. Siphon installed under access  Yes    No
  - c. Siphon removable  Yes    No
  - d. Siphon cycle counter operable  NA    Yes    No

- 4. Pump discharge assembly components installed
  - Assembly reachable from surface
  - Quick disconnect operable
  - Isolation valve operable  NA
  - Anti-siphon/air release device operable  NA
  - Backflow prevention (check valve) operable  NA
  - Air release located below check valve operable  NA
  - Drainback device operable  NA
  - Inline filter operable  NA
  - Pressure gauge /port operable  NA
  - Sampling port operable  NA

- 5. Water level sensors
  - a. Type of water level sensor:    Floats       Pressure transducers
  - Ohm probe       Other: \_\_\_\_\_
  - b. Sensor attachment
    - Tethered to float tree
    - Weighted tether from riser
    - Attached to riser
  - c. Float tree removable  NA    Yes    No
  - d. Pump floats/sensors settings

Sensor number*	Function	Operational <input type="checkbox"/> Yes <input type="checkbox"/> No	Set at**		Secured <input type="checkbox"/> Yes <input type="checkbox"/> No
			Inches	Datum	
1		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
2		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
3		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
4		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No
5		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No

\*Designate starting from bottom of tank.

\*\*Measurements are taken from a fixed point ("Datum") near the surface or bottom of float in inches.

- e. Alarm float/sensor operates audible alarm  NA    Yes    No
- f. Alarm float/sensor operates visible alarm  NA    Yes    No
- g. Pump submerged at OFF elevation  NA    Yes    No

**Comments:**

- 6. Performance verification
  - a. Design parameters (from permit or plans):
    - Dosing regime:
      - Demand dosing
      - Timed dosing
    - Design volume (DeV): \_\_\_\_\_

### PASEO/PSMA Installation of Onsite Wastewater Systems Checklist

Design Timer settings:  NA  
On setting \_\_\_\_\_ min.  
Off setting \_\_\_\_\_ min. or hr.  
Design PDR: \_\_\_\_\_ gal/min.  
Design operating pressure: \_\_\_\_\_ feet or psi

b. Dose volume (DV) verification

i. Calculate design drawdown (inches)

\_\_\_\_\_ [DeV (gal.)] ÷ \_\_\_\_\_ gal/in. = \_\_\_\_\_ Design drawdown (in.)

ii. Verify DV during a dosing event

Method to activate pump:  Water added/pump in AUTO  Lifted float

Pump run time during dosing event: \_\_\_\_\_ min.

Measured drawdown during dosing event:

\_\_\_\_\_ Pump off (in.) - \_\_\_\_\_ Pump on (in.) = \_\_\_\_\_ Measured drawdown (in.)

Calculate measured DV

\_\_\_\_\_ Measured drawdown (in.) x \_\_\_\_\_ gal/in. = \_\_\_\_\_ Measured DV (gal.)

Subtract drainback volume if appropriate:

\_\_\_\_\_ Measured DV (gal.) - \_\_\_\_\_ Drainback volume (gal.) = \_\_\_\_\_ Net DV (gal.)

c. Timer setting verification  NA

i. Timer operation verified

ii. Method of verification: \_\_\_\_\_

d. Pump delivery rate (PDR) verification

i. Measured DV (from Item 6a ii): \_\_\_\_\_ gal.

ii. Verified pump run time \_\_\_\_\_ min.

iii. Measured PDR: \_\_\_\_\_ gal. pumped ÷ \_\_\_\_\_ min. = \_\_\_\_\_ gal/min.

e. System pressure verification

i. Measured operating pressure: \_\_\_\_\_ feet or psi

ii. Measurement location: \_\_\_\_\_

ETM: elapsed time meter

DeV: design dose volume

DV: dose volume

gpi: gallons per inch

gpm: gallons per minute

HAND-OFF-AUTO: Hand-Off-Auto Switch

PDR: pump delivery rate

psi: pounds per square inch