Pierce County
Planning & Public Works

2702 South 42nd Street, Suite 109
Tacoma, Washington 98409-7315
piercecountywa.gov/ppw

Dennis Hanberg—Director
dennis.hanberg@piercecountywa.gov

June 8, 2020

Site ID # 15525
Inspector: Chris Gallagher

JC Higgins & Associates
Attn: Lorne Martin, Community Association Manager
PO Box 731029
Puyallup, WA 98383

RECEIVED
JUN 15 2020
BY:

Subject: **Annual Stormwater Management Facilities Inspection Results**
Grayhawk – Silver Creek
17701 92nd Ave E, Puyallup, WA 98375

Dear Lorne Martin,

On March 27, 2020, Pierce County Surface Water Management inspection staff conducted an annual inspection of the stormwater management facilities that serve the Grayhawk – Silver Creek subdivision.

The inspection of your stormwater management facilities documented the following maintenance that must be implemented in order to meet Pierce County maintenance standards, ensure your stormwater facilities function as designed, and to remain in the Credit Program.

Required Maintenance, Repairs and BMPs:

1. **Catch Basins**
   (refer to maintenance checklist #5 – Catch Basins enclosed)
   a. Remove sediment from 3 catch basins throughout the subdivision. Sediment levels in these catch basins exceed maintenance standards. Refer to the enclosed map for the locations of the catch basins with required maintenance.

2. **Wet Pond Inlet Pipe**
   (refer to maintenance checklist #11 – Wet Ponds, enclosed)
   a. Remove the items attached to, and in front of, the inlet pipe to the wet pond; the obstructions cause the stormwater flows to bypass treatment in the wet pond and instead flow into the infiltration pond. The items were not removed following vegetation maintenance in the wet pond. This was brought to the attention of Lorne Martin with JC Higgins & Associates and the HOA Board to address immediately so that the stormwater does not bypass the wet pond.

Recommended Maintenance

1. **Catch Basins**
    a. Remove sediment from all catch basins throughout the subdivision. Sediment levels in the catch basins that do not have required maintenance are approaching the threshold where sediment removal will be required.

Pierce County Public Works, Surface Water Management, conducts annual inspections of private stormwater management facilities throughout the County for proper implementation of maintenance standards and source control best management practices (BMPs).

The Planning & Public Works Director has since authorized a one-time opportunity for the reinstatement of the Grayhawk subdivision to the Pre-2017 Credit Program for 2021 with 85% credit if the subdivision meets the requirements for the Pre-2017 Credit Program in 2020. This includes:

- Compliance with maintenance and Best Management Practices (BMP) standards,
- Submit a 5-year recertification form for by October 1, 2020,
- All maintenance **completed and verified** by the Owner of Record by October 1, 2020.

I have tentatively scheduled a re-inspection in October to ensure the deficiencies have been addressed and your facilities meet or exceed current NPDES Stormwater Permit requirements. Failure to make the identified corrections and submit the Recertification form by **October 1, 2020** will result in denial to be reinstated into the Credit Program. If the maintenance is completed prior to the deadline, please contact your inspector to schedule a re-inspection.

Should you fail to implement the required maintenance and BMPs within the Credit Program's timeline, you will still be subject to the maintenance timelines imposed through Pierce County's Phase 1 Municipal Stormwater Permit. The permit allows the County one year to bring facilities into compliance.

Maintenance standards are set forth in the County's 2015 Stormwater Management and Site Development Manual (Stormwater Manual) and codified in Chapter 11.05.050.A of Pierce County Code. To download or review a copy of the Stormwater Manual, go to; http://piercecountywa.org/index.aspx?nid=2969 .

I addressed this letter to the listed property owner(s) or property representative on record. If you are no longer the property owner or property representative, or you have hired a Property Management Company to maintain your system, call me to update our records.

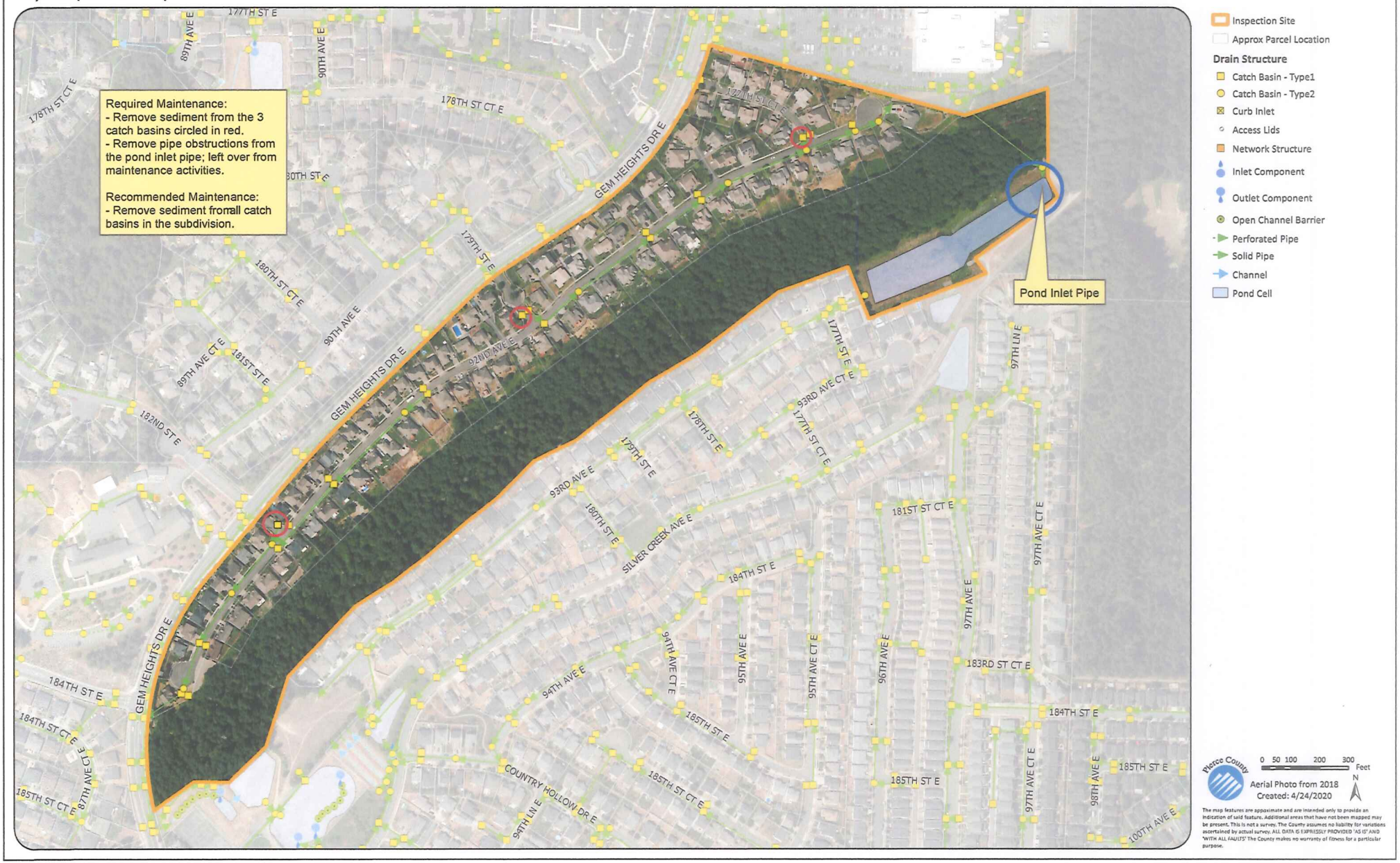
I can be reached at (253) 798-2493 or email me at PCSWMCredit@co.pierce.wa.us; be sure to reference your **Site ID#**, listed at the top of this letter, with all correspondence.

Sincerely,

Chris Gallagher
Water Quality Specialist

CG:KJ
Enc: Inspection Results Map, Checklists, Credit Program Recertification Form
Cc: File
Silver Creek HOA Board

Grayhawk (Site ID# 15528)



#5 – Maintenance Checklist for Catch Basins:

Drainage System Feature	Defect or Problem	Condition When Maintenance Is Needed	Results Expected When Maintenance Is Performed
General	"Dump no pollutants" (or similar) stencil or stamp not visible	Stencil or stamp should be visible and easily read.	Warning signs (e.g., "Dump No Waste-Drains to Stream" or "Only rain down the drain"/ "Puget Sound starts here") painted or embossed on or adjacent to all storm drain inlets.
General	Trash and Debris	Trash or debris which is located immediately in front of the catch basin opening or is blocking inlet capacity by more than 10 percent.	No trash or debris located immediately in front of catch basin or on grate opening.
General	Trash and Debris	Trash or debris (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of 6 inches clearance from the debris surface to the invert of the lowest pipe.	No trash or debris in the catch basin.
General	Trash and Debris	Trash or debris in any inlet or outlet pipe blocking more than one-third of its height.	Inlet and outlet pipes free of trash or debris.
General	Trash and Debris	Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane).	No dead animals or vegetation present within the catch basin.
General	Sediment	Sediment (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of 6 inches clearance from the sediment surface to the invert of the lowest pipe.	No sediment in the catch basin.
General	Structure Damage to Frame and/or Top Slab	Top slab has holes larger than 2 square inches or cracks wider than one-fourth inch.	No holes and cracks in the top slab allowing material to run into the basin.
General	Structure Damage to Frame and/or Top Slab	Frame not sitting flush on top slab, i.e., separation of more than three-fourth inch of the frame from the top slab. Frame not securely attached.	Frame is sitting flush on the riser rings or top slab and firmly attached.
General	Fractures or Cracks in Basin Walls/ Bottom	Maintenance person judges that structure is unsound.	Basin replaced or repaired to design standards.
General	Fractures or Cracks in Basin Walls/ Bottom	Grout fillet has separated or cracked wider than one-half-inch and longer than 1 foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering catch basin through cracks.	Pipe is regrouted and secure at basin wall.
General	Settlement/ Misalignment	If failure of basin has created a safety, function, or design problem.	Basin replaced or repaired to design standards.
General	Vegetation	Vegetation growing across and blocking more than 10 percent of the basin opening.	No vegetation blocking opening to basin.

#5 – Maintenance Checklist for Catch Basins:

Drainage System Feature	Defect or Problem	Condition When Maintenance Is Needed	Results Expected When Maintenance Is Performed
General	Vegetation	Vegetation growing in inlet/outlet pipe joints that is more than 6 inches tall and less than 6 inches apart.	No vegetation or root growth present.
General	Contamination and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants.	No contaminants or pollutants present. *(Coordinate removal/cleanup with Pierce County Surface Water Management 253-798-2725 and/or Dept. of Ecology Spill Response 800-424-8802.)*
Catch Basin Cover	Cover Not in Place	Cover is missing or only partially in place. Any open catch basin requires maintenance.	Catch basin cover is in place and secured.
Catch Basin Cover	Locking Mechanism Not Working	Mechanism cannot be opened by one maintenance person with proper tools. Bolts into frame have less than one-half-inch of thread.	Mechanism opens with proper tools.
Catch Basin Cover	Cover Difficult to Remove	One maintenance person cannot remove lid after applying normal lifting pressure. (Intent is keep cover from sealing off access to maintenance.)	Cover can be removed by one maintenance person.
Ladder	Ladder Rungs Unsafe	Ladder is unsafe due to missing rungs, not securely attached to basin wall, misalignment, rust, cracks, or sharp edges.	Ladder meets design standards and allows maintenance person safe access.
Grates	Grate Opening Unsafe	Grate with opening wider than seven-eighths of an inch.	Grate opening meets design standards.
Grates	Trash and Debris	Trash and debris that is blocking more than 20 percent of grate surface inletting capacity.	Grate free of trash and debris.
Grates	Damaged or Missing	Grate missing or broken member(s) of the grate.	Grate is in place and meets design standards.

If you are unsure whether a problem exists, contact a professional engineer.

#11 – Maintenance Checklist for Wet Ponds:

Drainage System Feature	Defect or Problem	Condition When Maintenance Is Needed	Results Expected When Maintenance Is Performed
General	Water level	First cell is empty, does not hold water.	Water retained in first cell for most of the year. *Line the first cell to maintain at least 4 feet of water. Although the second cell may drain, the first cell must remain full to control turbulence of the incoming flow and reduce sediment resuspension.*
	Trash and Debris	Accumulation that exceeds one cubic foot per 1,000 square feet of pond area.	No trash or debris on site. Any trash and debris removed from pond.
	Inlet/Outlet Pipe	Inlet/Outlet pipe clogged with sediment and/or debris material.	No clogging or blockage in the inlet and outlet piping.
	Sediment Accumulation in Pond Bottom	Sediment accumulations in pond bottom that exceeds the depth of sediment zone plus 6 inches, usually in the first cell.	Sediment removed from pond bottom. (*If sediment contamination is a potential problem, sediment should be tested regularly to determine leaching potential prior to disposal.)*
	Oil Sheen on Water	Prevalent and visible oil sheen.	Oil removed from water using oil-absorbent pads or vactor truck. Source of oil located and corrected. *If chronic low levels of oil persist, plant wetland plants such as Juncus effusus (soft rush) which can uptake small concentrations of oil.*
	Erosion	Erosion of the pond's side slopes and/or scouring of the pond bottom that exceeds 6 inches, or where continued erosion is prevalent.	Slopes stabilized using proper erosion control measures and repair methods.
	Settlement of Pond Dike/Berm	Any part of these components that has settled 4 inches or lower than the design elevation, or inspector determines dike/berm is unsound.	Dike/berm is repaired to specifications.
	Internal Berm	Berm dividing cells should be level.	Berm surface is leveled so that water flows evenly over entire length of berm.
	Overflow Spillway	Rock is missing and soil is exposed at top of spillway or outside slope.	Rocks replaced to specifications.

If you are unsure whether a problem exists, contact a professional engineer.

Pierce County

Credit Program
5-Year Recertification

Pierce County Surface Water Management
Attn: SWM Credit Program
2702 S. 42nd St., Suite 201
Tacoma, WA 98409-7322
pcswmcredit@co.pierce.wa.us
(253) 798-2725

SUBMITTAL DEADLINE: No Later Than October 1st, 2020 **Site ID #:** 15528

Recertification is for Credit in: 2021

Completion of the entire form is required

COUNTY USE ONLY
Application Received _____
Credit Percentage Granted _____
Approved by_____Date _____

Part 1 Tax Parcels to be Granted Credit

Note: Refer to attached addendum for list of tax parcels to be granted credit.

Part 2 Property Owner or Property Representative Information

Full Name/ Company:			
Name of Company Contact:		Title:	
Phone:	Cell:	Email:	
Postal Address:	City:	State:	ZIP:

Part 3 Engineer's Statement of Certification

I have physically inspected the drainage facilities that manage stormwater flows from the listed parcels on this form, on _____ (date), including the entire collection system within the property limits; all detention and/or retention facilities, control structures, and conveyance features of the facilities. I have reviewed the drainage facilities in accordance with the engineered plans and calculations dated, _____. I hereby certify that this system has been properly maintained, is operating as designed, **and has not been altered in the last five (5) years; if alterations were done to the stormwater facilities, contact the Credit Program Administrator immediately.**

_____ _____
Signature of Property Owner's Engineer Date

_____
Washington State Engineering License Number