

CHRISTIE PEAK EXPRESS RELOCATION SAND FILTER OWNERSHIP AND MAINTENANCE PLAN CONSTRUCTED IN AUGUST, 2023 MAINTENANCE TO BE PERFORMED BY SSRC

1. GENERAL PROJECT INFORMATION

- A. ADDRESS 2305 MT WERNER CIRCLE, STEAMBOAT SPRINGS, CO LEGAL DESCRIPTION: LOT D OF THE SKI HILL SUBDIVISION
- B. RECEIVING WATER: BURGESS CREEK C. PROPERTY OWNER: STEAMBOAT SKI AND RESORT COMPANY (SSRC) JIM SCHNEIDER CONTACT NAME: 2305 MT. WERNER CIRCLE, STEAMBOAT SPRINGS, CO ADDRESS: 80487
- PHONE NUMBER: 970-871-5381 EMAIL: jschneider@steamboat.com

D. AGENCY RESPONSIBLE

FOR MAINTENAM	NCE:	STEAMBOAT SKI AND RESORT COMPANY (SSRC)
CONTACT NAME		JIM SCHNEIDER
ADDRESS:		2305 MT. WERNER CIRCLE, STEAMBOAT SPRINGS, CO 80487
PHONE NUMBER	R:	970-871-5381
EMAIL:	jschnei	der@steamboat.com

E. DESIGN ENGINEER:	LANDMARK CONSULTANTS, INC.
CONTACT NAME:	DEBORAH SPAUSTAT, P.E.
ADDRESS:	141 9TH STREET, STEAMBOAT SPRINGS, CO
PHONE NUMBER:	970-871-9494
EMAIL: debs@	றுlandmark-co.com
PE LICENCE NUMBER:	41286

- 2. GENERAL FACILITY DESCRIPTION
- THIS FACILITY IS A SAND FILTER POND THAT WILL PROVIDE WATER QUALITY TREATMENT FOR THE WATER QUALITY CAPTURE VOLUME (WQCV). THE FACILITY HAS BEEN ADOPTED AND APPROVED BY SSRC AS PART OF THE CHRISTIE PEAK EXPRESS PROJECT. IT WILL RECEIVE RUNOFF FROM 0.83 ACRES AND WILL OCCUPY A PARCEL OF 0.01 ACRES THAT WILL BE USED TO PROVIDE VOLUME BASED WATER QUALITY TREATMENT, MAINTENANCE, & ACCESS OPERATIONAL ACTIVITIES.

3. INSPECTION & MAINTENANCE FREQUENCY & PROCEDURE

A. THE FOLLOWING ITEMS SHOULD BE INSPECTED:

TABLE 1: MAINTENANCE ACTIVITY/FREQUENCY		
ACTIVITY	REQUIRED FREQUENCY	
INSPECTION TO CONFIRM INFILTRATION RATE AFTER RAINFALL; MAINTAIN AS NECESSARY. DEBRIS AND LITTER REMOVAL	TWICE ANNUALLY. ONE TIME TO OCCUR IN SPRING AFTER SNOWMELT FROM CONTRIBUTING BASIN IS COMPLETE.	
MOWING, IRRIGATION	NA	
INSPECTION OF UNDERDRAIN VIA CLEAN-OUT; REMOVE SEDIMENT/DEBRIS IF PRESENT	WHEN PONDING LASTS LONGER THAN 24 HOURS	
SCARIFY TOP 2" OF SAND WITH RAKE	WHEN PONDING LASTS LONGER THAN 24 HOURS AND UNDERDRAIN IS NOT CLOGGED	
REPLENISH TOP 3" OF FILTER MEDIA WITH CLEAN COARSE SAND (AASHTO C-33 OR CDOT CLASS C FILTER MEDIA) TO THE ORIGINAL ELEVATION	AFTER SCARIFICATION 3 TIMES	
SEDIMENT REMOVAL AND REPLACEMENT OF MEDIA. SEE TABLE 2 FOR MEDIA SPECIFICATIONS.	WHEN PONDING LASTS 24 HOURS, UNDERDRAIN IS NOT CLOGGED AND SCARIFICATION DOES NOT RESTORE INFILTRATION	

B. REVISIONS TO MAINTENANCE FREQUENCY

C. TRAFFIC CONTROL: NONE

- D. THE FACILITY DOES REQUIRE CONFINED SPACE ENTRY PROCEDURES FOR ORIFICE CAP INSPECTION AND MAINTENANCE
- E. DEWATERING AND WATER CONTROL: NA
- F. SEDIMENT, DEBRIS, & TRASH REMOVAL & DISPOSAL: REMOVAL SHALL BE CONDUCTED IF THERE IS PRESENCE OF TRASH OR DEBRIS AT INSPECTION. SEDIMENT AND DEBRIS SHALL BE REMOVED MANUALLY USING A SHOVEL OR RAKE AND DISPOSED OF AT A LICENSED FACILITY. THE LONGEST DISTANCE BETWEEN THE EDGE OF AN ACCESS ROAD AND THE FAR CORNER OF A STRUCTURE REQUIRING SEDIMENT REMOVAL IS [X] FEET.
- G. VEGETATION MANAGEMENT SEE SECTION 4 OF THE NOTES ON THIS SHEET.
- H. WETLAND AREAS ARE NOT ANTICIPATED. SEE SECTION 8.0 OF THE NOTES ON THIS SHEET
- I. DESCRIBE ADDITIONAL REQUIRED MAINTENANCE PROCEDURES AND FREQUENCIES.-NA SEE TABLE 1
- J. MATERIALS TESTING OF SEDIMENT REMOVED FROM SITE IS NOT REQUIRED.

4. EQUIPMENT, STAFFING, AND VEGETATION MANAGEMENT

- A. EQUIPMENT REQUIRED: MAY INCLUDE BUT IS NOT LIMITED TO MOWERS, PUMPS, HOSES, SHOVELS, BUCKETS, RAKES, EXCAVATORS [NOTE REACH REQ'D], WEED KILLERS, GENERATORS, SPRAYERS, DATA LOG/INSPECTION REPORTS.
- B. STAFFING: A MINIMUM OF 1 STAFF MEMBER IS REQUIRED TO MAINTAIN TREATMENT FACILITY.
- C. SEED: NA
- D MOWING NA
- E. WEEDS & UNDESIRABLE VEGETATION: NOXIOUS WEEDS AND OTHER UNDESIRABLE VEGETATION SHALL BE REMOVED BY RAKING SAND FILTER.

5. SNOW AND ICE CONTROL

A. FACILITY IS NOT LOCATED WITHIN A SNOW STORAGE AREA AS DEFINED IN THE COMMUNITY DEVELOPMENT CODE

6. RIGHT-OF-WAY, ADJACENT OWNERSHIP, & ACCESS

- A. RIGHT-OF-WAY DESCRIPTION: N/A
- B. ADJACENT OWNERSHIP: N/A
- ROADS
- RIGHT-OF-WAY PERMIT IS NOT REQUIRED

7. HYDRAULIC DESIGN

A. FLOW RATES (CFS):

	INFLOW
BASE FLOW:	NA
WQ EVENT:	NA
2-YEAR:	NA
100-YEAR:	NA

B. VOLUMES, DEPTHS, & WSELS:

ITEM SAND FILTER TOP 4" PERF PIPE OUTLET INV.

- SPILLWAY WQCV
- C. WQCV DRAIN TIME = 12 HOURS EURV DRAIN TIME = NA

8. SENSITIVE AREAS, WETLANDS, & PERMITS

THE SITE HAS NO KNOWN WETLANDS

9. MISCELLANEOUS INFORMATION

A. PROJECT SURVEY: EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION PER CITY GIS DATA AND SUPPLEMENTED WITH LANDMARK CONSULTANTS, INC. ARCHIVED SURVEY FIELD DATA PROJECT BENCHMARK: "X" ON CONCRETE COLLAR OF INLET STRUCTURE. ELEV=6910.60'. NAVD 88

- (N)1415866.11(E)2636677.13, 1.000368966.
- C. POND MATERIALS: SEE TABLE 2

			MASS PERCENT PASSING SQUARE MESH SIEVE	
		SIEVE SIZE	CLASS B	CLASS C
		37.7mm (1.5")	100	
FILTER	CDOT FILTER MATERIAL	19.0 mm (0.75")		100
MATERIAL	(CLASS B OR C)	4.75 mm (No. 4)	20-60	60-100
		1.18 μm (No. 16)	10-30	
		300 μm (No. 50)	0-10	10-30
		150 μm (No. 100)		0-10
		75 μm (No. 200)	0-3	0-3
UNDERDRAIN		MAX. SLOT	MIN. OPEN AREA	
PIPE	PIPE Ø AND TYPE	WIDTH (in.)	(PER ft.)	
	4" SLOTTED PVC	0.032	1.90 in ²	

C. ACCESS INFORMATION AND DETAILS: THE FACILITY IS ACCESSED VIA SKI AREA ACCESS

D. MAINTENANCE OPERATIONS WILL NOT IMPACT OR OBSTRUCT RIGHT-OF-WAY AND A

OUTFLOW	
NA	
NA	

NA

NA

VOLUME	WSEL	DEPTH	ELEVATION
NA	NA	NA	6908.9
NA	NA	NA	6905.8
NA	NA	0.5-FT	6910.2
236-CF	6909.9	1.0-FT	NA

B. COORDINATE SYSTEM: THE COORDINATE SYSTEM IS COLORADO COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011), NAVD88, COMBINE SCALE FACTOR

TABLE 2: POND MATERIALS

