NWW-2007-00428

Form Information

JD Form Type: Nonseasonal/Perennial

Project Location and Background Information

State	ID - Idaho
County/parish/borough	Bonneville
City	Swan Valley
Lat	-111.30256434184156
Long	43.42991669769064
Nearest Waterbody	Rainey Creek
TNW into which the aquatic resource flows	South Fork Snake River
Watershed or HUC	Snake
Map or diagram available	☑ (Review or Jurisdictional Area)
JD recorded associated sites?	☐ (e.g., offsite mitigation sites, disposal sites, etc¿)
Universal Transverse Mercator:	[ ]

Form Characteristics

Each characteristic may or may not be available depending on the form type chosen.

Nonseasonal/Perennial Form

Dates

JD Sequence: 1

☑ Office Determination Date 27-Feb-2008

☑ Field Determination Date(s)

Request Date 10-Apr-2007

NWW-2007-00428

Selected Water

Folder NWW-2007-00428
Form JD1
Name 07-428 McGrath Pond Development
Waterway **Rainey Creek**
Local Waterway Rainey Creek

Determination

Type Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
Area **Pond is approximately 10 acres**
Flow **Perennial flow**
Flow Rationale Rainey Creek is perennial upstream on USFS lands and downstream of site. Sections dewater due to irrigation diversions. This site will have water most months, but volume decreases in winter.

Physical Characteristics

Relationship with TNW
Tributary stream order: 4

General Tributary Characteristics
Tributary

- [x] Natural
- [ ] Artificial (man-made).
- [x] Manipulated (man-altered).

Explain: Area has been dredged in past and area is heavily enfluenced by irrigation diversions and storage.

Tributary properties with respect to top of bank (estimate):

Average Width	28
Average Depth	2
Average Side Slopes	2:1

Primary tributary substrate composition

- [x] Silts
- [x] Sands
- [ ] Concrete
- [ ] Cobbles
- [x] Gravel
- [x] Muck
- [ ] Bedrock
- [ ] Vegetation
- [x] Other

Explain: Site is oxbow or impoundment of Rainey Creek water.

Tributary has (check all that apply):

Describe the tributary condition/stability (e.g., highly eroding, sloughing banks)
Rainey Creek upstream and downstream has been straightened, channelized and bermed. The project site is within historic flood scar or meander which collects ground water and Rainey Creek water and acts as irrigation storage reservoir and wildlife pond.

Describe the presence of run/riffle/pool complexes
no riffle pool complexes on project site. Upstream and downstream very degraded pools and riffles may be present.

Tributary geometry	Relatively Straight
Tributary gradient	1 % (approximate average slope)

Flow

Flow Type:	Intermittent flow.
# of flow events	2-5 (Estimate average number of flow events in review area/year)
Describe flow regime	Spring snow melt is usually two events, low elevation, early melts and concurrent creek rise (March-April) and high elevation, late melts (May-June), plus there are peaks from localized rains and valleys with local irrigation withdrawals.

Other information on duration and volume: None

Surface flow	Discrete and confined
Characteristics:	Rainey Creek is channlized and bermed in many loctions.
Subsurface Flow	Unknown
Explain Findings	

☐ Dye (or other) test performed

☑ Bed and banks

☑ OHWM (Check all indicators that apply):

☑ clear, natural line impressed on the bank

☑ changes in the character of soil

☑ shelving

☐ vegetation matted down, bent, or absent

☐ leaf litter disturbed or washed away

☐ sediment deposition

☐ water staining

☐ other (list):

☐ the presence of litter and debris

☑ destruction of terrestrial vegetation

☐ the presence of wrack line

☐ sediment sorting

☐ scour

☐ multiple observed or predicted flow events

☐ abrupt change in plant community

☐ Discontinuous OHWM

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by

- ☐ oil or scum line along shore objects
- ☐ fine shell or debris deposits (foreshore)
- ☐ physical markings/characteristics
- ☐ tidal gauges

☐ Mean High Water Mark indicated by

- ☐ survey to available datum;
- ☐ physcial markings;
- ☐ vegetation lines/changes in vegetation types.

☐ other (list):

Chemical Characteristics

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Chemical parameters not determined. However, DEQ has listed Rainey Creek as impaired in not meeting its beneficial uses.

Identify specific pollutants, if known

Biological Characteristics

Channel/Wetland supports (check all that apply):

☐ Riparian corridor

☑ Wetland fringe

Characteristics: Palustrine emergent fring along pond and creek in locations.

☑ Habitat for

☐ Federally Listed species

☐ Fish/spawn areas

☑ Other environmentally-sensitive species

Explain findings: owner has observed trumpter swans using pond.

☑ Aquatic/wildlife diversity

Explain findings: substantial waterfowl use pond.