

RECLAMATION

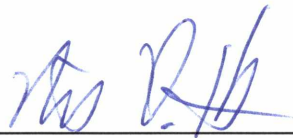
Managing Water in the West

Categorical Exclusion Checklist

Installation of Corrosion Control Rectifier & Deep Well Anode Near Contra Costa Canal Mile Post 40.62

CEC-12-011

Prepared by:



Date: 8/27/12

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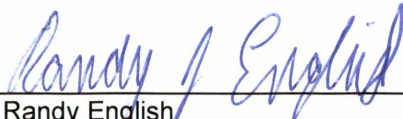
Concurred by:



Date: 8/28/12

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Date: 9/18/12

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Approved by:



Date: 9/18/12

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Background

In 1994 the Bureau of Reclamation (Reclamation) granted a longitudinal easement to the Contra Costa Water District (CCWD) for the installation of a 24-inch water main near the Contra Costa Canal (Canal) at Milepost (MP) 40.62 (Figure 1). A recent report by a corrosion control consultant found that the original galvanic anodes attached to the water main are exhausted, and recommended that an impressed current system including a rectifier and deep well anodes be installed. CCWD has requested that Reclamation issue a permit to install and maintain corrosion protection equipment and a deep well anode for the water main.

Purpose and Need for Action

Corrosion of the previously constructed 24-inch water main and appurtenances, if not prevented, can cause damage to the Canal due to leakage and/or pipeline breakage. Installation of a rectifier and deep well anode would provide corrosion resistance, reducing the risk of damage to the water main and the Canal.

Proposed Action

Reclamation proposes to issue CCWD an MP620 permit (a Reclamation Mid-Pacific Region-specific permit issued for additions or alterations to Reclamation-owned conveyance and distribution facilities) to construct the facilities described below in the Canal ROW at MP 40.62. CCWD's MP620 application has been reviewed by a Reclamation engineer and found to have no adverse impact to Reclamation's canal, properties, or structures.

The corrosion protection equipment would include two concrete pads, a rectifier, electrical conduit, wire, and a power meter. The deep well anode would consist of anodes hung in a 300-foot deep, 12-inch diameter well, with a borehole diameter of approximately 14 inches. The rectifier and deep well anode would be electrically bound to the 24-inch steel water main (Figure 2). Two square concrete pads would be installed approximately 12 inches below grade: a 4 foot by 4 foot pad for the rectifier, and a 14 inch by 14 inch pad for the power meter. Three underground cable conduits would be installed: a power cable from the pole-mounted PG&E transformer to the rectifier, a cable from the rectifier to the water main, and a cable from the rectifier to the anode column (Figure 3). The conduits from the rectifier to the pole and to the water main would be laid in one trench, 18-24 inches deep by 12 inches wide by 85-90 feet long. Access to the water main would be provided by an opening 6 feet wide by 6 feet long by 5 foot deep, excavated along the trench approximately 60 feet from the rectifier. The conduit to the anode column would be laid in a separate trench approximately 18 inches deep by 12 inches wide by 5 feet long.

Construction would begin in August 2013 and be completed by the end of September 2013. Construction equipment would include a drilling rig, flat bed truck, and a small front loader. Excavated soil would be disposed of off-site by the contractor at a qualified landfill.

Environmental Commitments

CCWD shall implement the following environmental protection measures:

Resource	Protection Measure
Biological	If any listed species are observed in the project area, Reclamation will be notified and the project will be rescheduled or postponed to avoid all impacts to species. Any scheduled operations and maintenance activities will also be rescheduled or postponed to avoid impacts to listed species.
Biological	A litter control program shall be instituted at the project site. All workers shall ensure their food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the project area at the end of each working day.

Environmental consequences for resource areas assume the measures specified would be fully implemented.

Exclusion Category

516 DM 14.5 paragraph C (3): *Minor construction activities associated with authorized projects which correct unsatisfactory environmental conditions or which merely augment or supplement, or are enclosed within existing facilities.*





Figure 2 Contra Costa Canal at Boyd Road (MP 40.62)

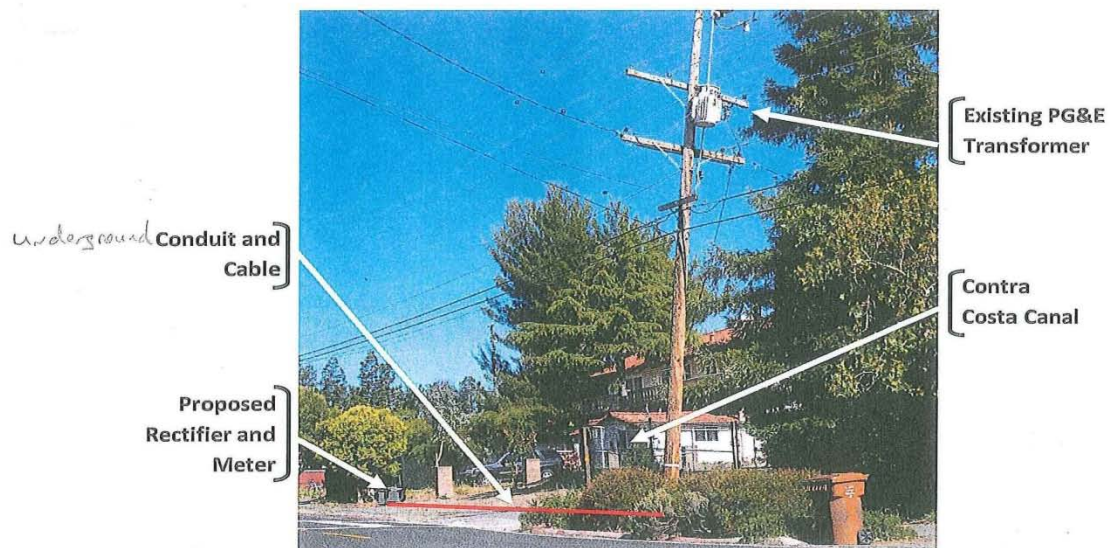


Figure 3 View of 565 Boyd Road, Next to Proposed Rectifier Site.

Evaluation of Criteria for Categorical Exclusion:

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| 1. This action would have a significant effect on the quality of the human environment (40 CFR 1502.3). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 2. This action would have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources (NEPA Section 102(2)(E) and 43 CFR 46.215(c)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 3. This action would have significant impacts on public health or safety (43 CFR 46.215(a)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 4. This action would have significant impacts on such natural resources and unique geographical characteristics as historic or cultural resources; parks, recreation, and refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (EO 11990); flood plains (EO 11988); national monuments; migratory birds; and other ecologically significant or critical areas (43 CFR 46.215 (b)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 5. This action would have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks (43 CFR 46.215(d)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 6. This action would establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects (43 CFR 46.215 (e)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 7. This action would have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects (43 CFR 46.215 (f)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 8. This action would have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by Reclamation (LND 02-01) (43 CFR 46.215 (g)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 9. This action would have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated critical habitat for these species (43 CFR 46.215 (h)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |

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| 10. This action would violate a Federal, tribal, State, or local law or requirement imposed for protection of the environment (43 CFR 46.215 (i)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 11. This action would affect ITAs (512 DM 2, Policy Memorandum dated December 15, 1993). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 12. This action would have a disproportionately high and adverse effect on low income or minority populations (EO 12898) (43 CFR 46.215 (j)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 13. This action would limit access to, and ceremonial use of, Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (EO 13007, 43 CFR 46.215 (k), and 512 DM 3)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |
| 14. This action would contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act, EO 13112, and 43 CFR 46.215 (l)). | No | ☒ | Uncertain | ☐ | Yes | ☐ |

Regional Archeologist concurred with Item 8. Their determination has been placed within the project file.

Area Office Biologist concurred with Item 9. Their determination has been placed within the project file.

ITA Designee concurred with Item 11. Their determination has been placed within the project file.