Work Variance Request Form

| Groundwater Remedy Phase 1 Construction, PG&E Topock Compre | essor Station, Needles, California |
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| PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT Work Variance Request #8 – Proposed changes to the align | ment of Pipeline C Segment C6 |
| Request Prepared By: PG&E | Request Approval From: DTSC and DOI |
| Date Submitted: September 10, 2019 | Date Approval Required: TBD |
| Variance Request No.: 8 | Map Area: N/A |
| Location: The eastern slope of the MW-20 Bench, just south of the stairway from floodplain to the bench top Land Manager: BLM Land Owner Parcel No: 650-161-09 | |
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| Current Vegetative Cover/Land Use: Several palo verde/mes | |
| Existing Sensitive Resource? No X Yes, Specify: Ethno | <u> </u> |
| Variance From: Mitigation Measure Work Pla | n/Procedure Response to Comments |
| X Drawing Permit Condition | Other |
| Detailed Description of Variance and Justification (Attach a | dditional information if necessary): |
| Attachments: Photo X Construction Drawing A | Aerial Photo Mark-Up Correspondence Other |
| Potential Impacts of Variance: | |
| ☐ Air Quality ☐ Hazardous Mat | rerials Aesthetic (see visualizations) |
| X Biological Resources Noise | ☐ Water Resources |
| X Soils Paleo Resources | S |
| ☐ Cultural Resources ☐ Hydrology and | Water Quality |
| Description and Justification: | |
| This Work Variance Request (WVR) addresses proposed change amount of soil disturbance, reduce the number of plants to be reconstruction atop the MW-20 bench, and reduce the hazards as construction. The specifics are described below and included in | removed, reduce the safety risks associated with sociated with operation at the MW-20 bench during |
| a) Reduce amount of soil disturbance. The original alignment cubic yards (CY) of excavated soil, mostly (1040 CY) from at excavation to about 7.5 feet below ground surface (bgs) for undercrossing and installation alongside the existing IM-3 usidewall benching for excavation protection. | op the MW-20 bench. The original alignment requires r the entire segment C6 extent atop the Bench to allow |
| PG&E proposes to shift the alignment south where the pipe deeper excavation limited only to crossing small-diameter I utilities. This shift reduces the amount of soil disturbance be | RZ lateral pipes and conduits under the existing IM-3 |
| b) Reduce number of plants to be removed. The original alignment w | nment would require the removal of about three palo verd |

- b) Reduce number of plants to be removed. The original alignment would require the removal of about three palo verde trees and four creosote bushes. The proposed alignment would save those plants, but would require the removal of two mesquite trees and one creosote bush. Every effort will be made to swing the alignment as far north as possible to further reduce the number of plants to be removed.
- c) Reduce safety risks associated with deep excavation and working under energized utilities. The original alignment would require exposure of 110 feet of active IM-3 utilities to allow for crossing of the Segment C6. The IM-3 facilities would remain energized during construction, posing a significant health and safety risk for workers that would have to work directly underneath the exposed and energized utilities. Energized utilities include power and IM-3 process water/waste. In addition, deep excavation to about 7.5 feet bgs would occur, and construction access would

Work Variance Request Form (Continued)

Groundwater Remedy Phase 1 Construction, PG&E Topock Compressor Station, Needles, California

PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT

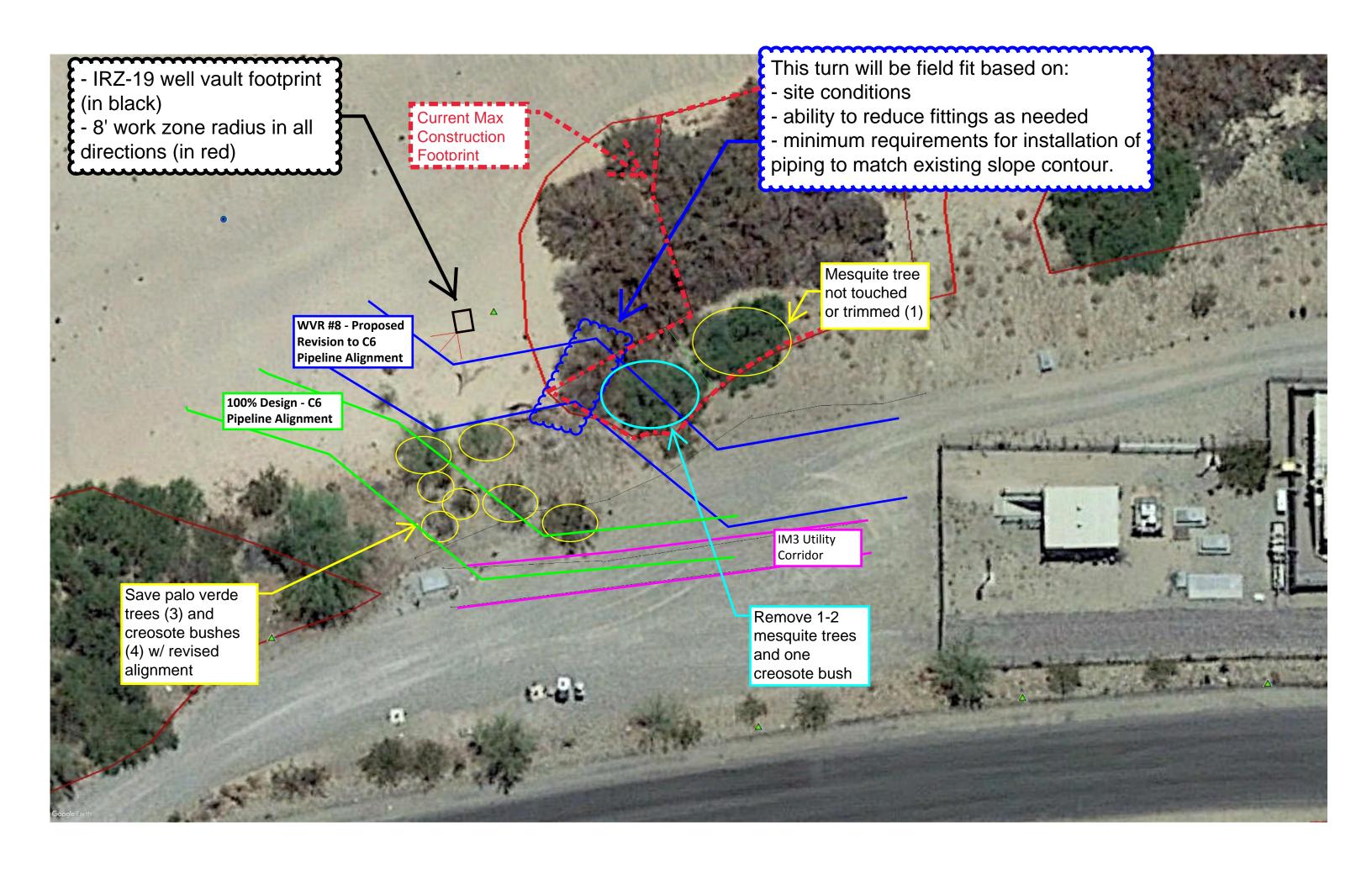
Work Variance Request #8 - Proposed changes to the alignment of Pipeline C Segment C6

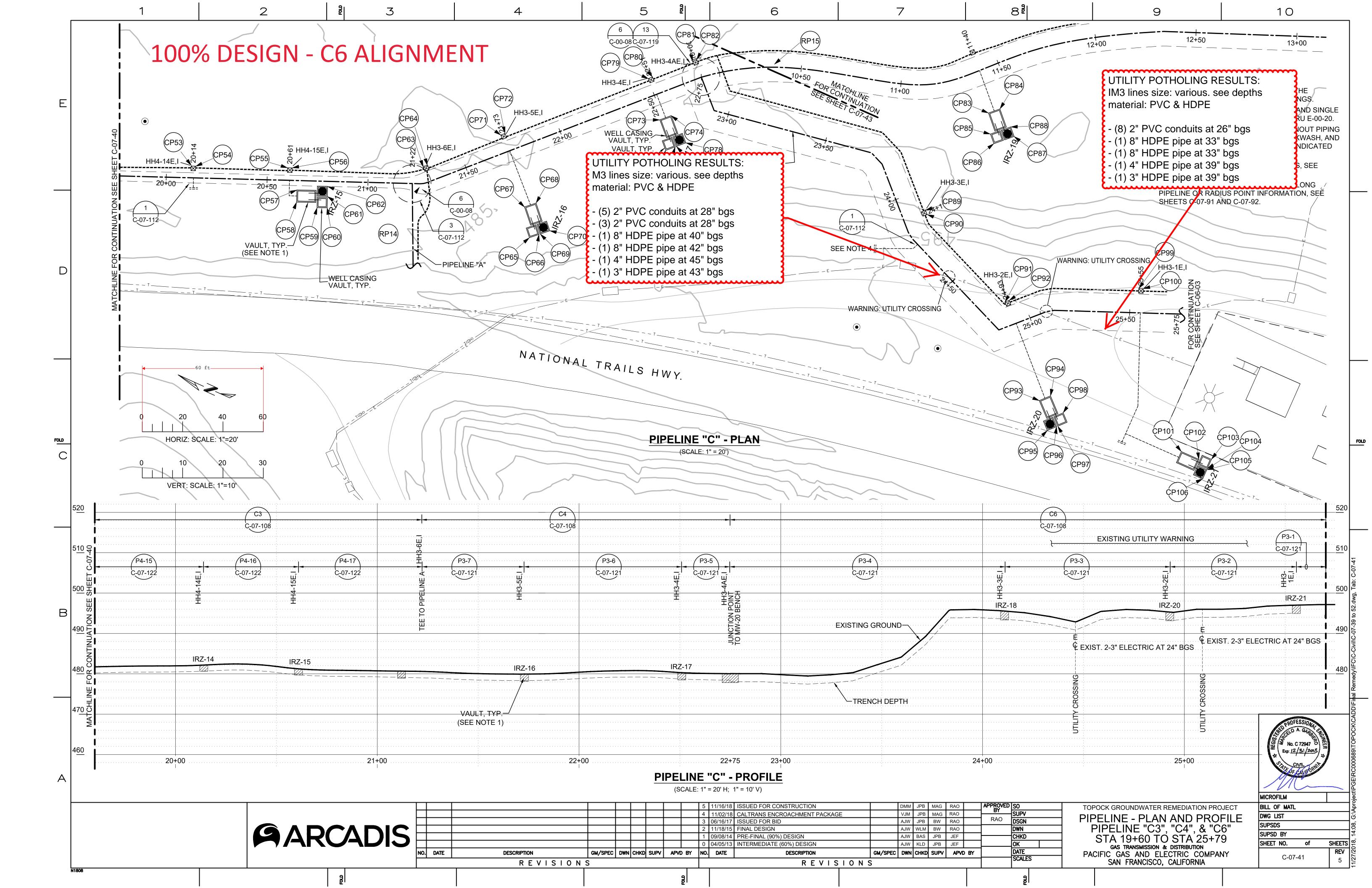
Description and Justification: (Continued)

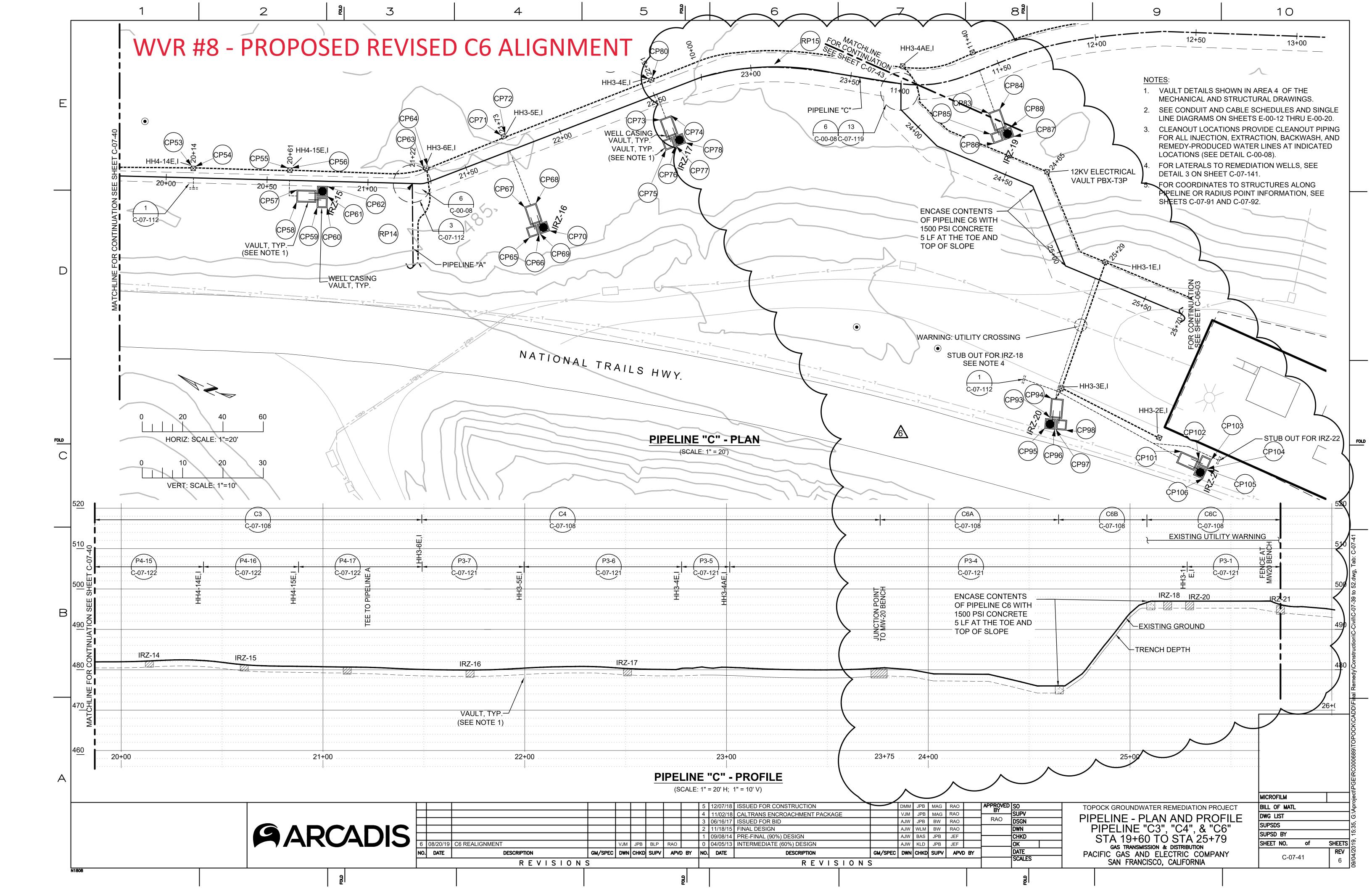
- c) Reduce safety risks associated with deep excavation and working under energized utilities (continued). Require benching or sloping to allow worker access to the excavation. In addition, there is greater slope stability risk/hazard at the intersection of the bench top and the slope as the trench would have to go down to 7.5' bgs immediately at the top of the slope, since the IM3 utilities are located on the bench near the top of slope. The proposed alignment avoids these safety risks.
- d) Reduce operational hazards at the MW-20 Bench. Construction of the original alignment would render the entire northern extent of the bench, from the northern entrance to the brine tank area, inaccessible. All other activities at the bench would have to operate from the southern access point, which creates traffic control and crowding hazards.

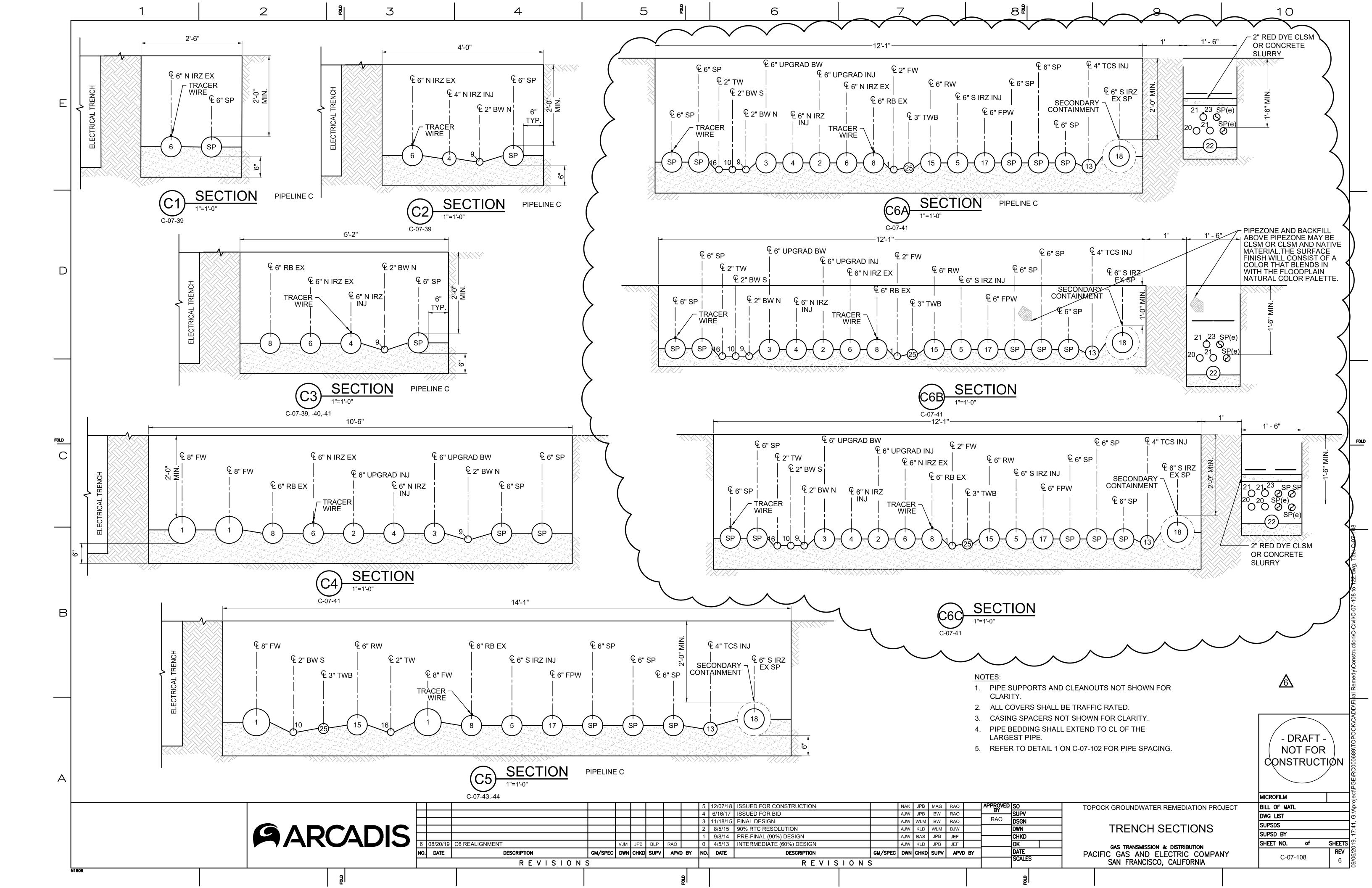
In sum, the proposed changes in this WVR reduce the amount of soil disturbance by approximately 823 cubic yards (from the final design), the number of plants to be removed, and the safety risks/hazards associated with construction atop the bench. Besides the two mesquite trees and one creosote bush to be removed, there are no additional impacts to biological, historical, and cultural resources not already evaluated.

| Approval Signatures: | | A 4 | |
|-------------------------|---------|------------------|----------------|
| 12180 | 9/12/19 | DTSC, | 10/4/2019 |
| PG&E Operations Manager | Date | Approving Agency | Date |
| Otte V. Wast | 9/12/19 | Jamela Immis | DOI 10/08/2019 |
| PG&E QA Manager | Date | Approving Agency | Date |









Future Activity Allowance Determination Matrix for Work Variance Request (WVR)

| W | ork Variance Request No. 8 Date: 10/4/19 | | | | | |
|-------------------------------|---|--|--|--|--|--|
| sup fin pre an me | Future Activity Allowance is an activity that is not considered in the remedy design but necessary to support the project objectives. Future Activity Allowance is a Material Deviation which is defined in the final groundwater remedy design as: Material Deviation means a change or correction required to prevent a condition that would (1) render the approved design non-compliant with codes, regulations, and /or engineering standard of practices, (2) render planned well locations and/or constructions fail to meet the project objectives, (3) cause significant schedule delay, and/or (4) cause a significant increase in costs. (CH2M Hill, 2015) | | | | | |
| to fro the cor of | cording to the SEIR Project Description, "The inclusion of the Future Activity Allowance is not intended account for minor adjustments (work variances) of the remedy design during construction resulting m field conditions. DTSC's objective for the inclusion of the Future Activity Allowance is to consider a potential impacts of needing to take additional but previously unforeseen activities that were not intemplated as part of the Final Remedy Design but are activities that would improve the performance the remedy, or are necessary to gather additional information on the remedy performance, and/or in the transition of the active remedy to monitored natural attenuation." (ESA, 2017) | | | | | |
| 1. | Are all components of the WVR in the approved final design as reviewed in the SEIR? $\hfill \boxtimes$ Yes $\hfill \square$ No | | | | | |
| 2. | Are all components of the WVR staying within an infrastructure alignment in the approved final design? ☐ Yes ☒ No | | | | | |
| If a | nswers to both 1 and 2 are Yes, STOP – action is not Future Activity Allowance | | | | | |
| 3. | For components not in approved final design, will the WVR require new access not identified for use in the final design and create new ground disturbance beyond those anticipated in final design? \Box Yes \boxtimes No | | | | | |
| If a | nswer is No, STOP – action is not Future Activity Allowance. If Yes, proceed | | | | | |
| 4. | For components not in approved final design and require new access or new ground disturbance, will the ground disturbing activity be outside the 2018 SEIR project boundary? \Box Yes \Box No | | | | | |
| | nswer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be a sidered after DTSC completes CEQA determination. | | | | | |
| 5. | For WVR requiring new access and/or new ground disturbance, but project components are in approved final design and within the 2018 SEIR project boundary, is the variance necessitated by field conditions which are outside the control of the operator (e.g. refusal during drilling, unstable ground, existing design jeopardizes health and safety, modification to avoid archaeological resource, existing design does not conform to engineering standards, etc.)? □ Yes □ No | | | | | |
| | nswer is No or otherwise explained in Section 7 below, action is Future Activity Allowance, follow mmunication Protocol for Future Activities Allowance, Exhibit 3 to the Statement of Decision and | | | | | |

Resolution of Approval. If the answer is Yes, action is Future Activity Allowance, and DTSC will work with

| Future Activity Allowance Determination | Matrix |
|---|--------|
| WVR No. 4 | |
| Page 2 of 2 | |

Tribes to meet the time sensitivity of the WVR. Regardless of response, because of new access and/or new ground disturbance, WVR action may be subject to Federal Consultation. Inquire with BLM to determine whether there is a need to follow Consultation during Construction protocol.

| 6. | Does the addition of WVR cause an exceedance from infrastructure limits specified in the 2018 certified Final SEIR (Table 3-1 for well boreholes; Table 3-2 for pipeline trenches, electrical/communication conduit, roadway improvements, or sizes of buildings and structures; Table 3-4 for volume of soil disturbance and Table 3-5 for water usage)? □ Yes □ No |
|-----|---|
| cor | nswer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be sidered after DTSC completes a CEQA checklist to determine if there are new or substantially more nificant environmental impacts than disclosed in the 2018 SEIR. |
| 7. | Other extenuating circumstances or information for FAA considerations: \square No \square Yes — provide information and/or justification |
| Coi | nclusion: WVR No. <u>8</u> |
| Sig | nature of DTSC reviewer: Date: 10/04/2019 |