

## TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 0882	TPA CHANGE NOTICE FORM	Date: 12/16/19
Document Number, Title, and Revision: DOE/RL-2016-22, <i>Waste Management Plan for Perched Water Pumping/Pore Water Extraction, 200-DV-1 Operable Unit, Rev. 0</i>		Date Document Last Issued: March, 2016
Approved Change Notices Against this Document:		
Originator: Mark Byrnes		Phone: 509-373-3996

**Description of Change:**  
DOE/RL-2016-22 is revised to add twelve new wells planned to support perched water extraction and monitoring in the 200-DV-1 Operable Unit.

                    M. W. Cline                     and                     D. Goswami                     agree that the proposed change  
**DOE** **Lead Regulatory Agency**  
 modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

Page 1 is modified to delete the reference to three extraction wells because twelve new wells are planned, and add a reference to the 200-ZP-1 optimization study plan (DOE/RL-2019-38).

Page 5, Figure 1 is modified to add the twelve proposed new wells and to show the revised extent of the perched water zone.

Page A-1, Table A-1 adds the twelve proposed new perched water wells in the 200-DV-1 Operable Unit.



Additions are shown using double underline. Deletions are shown using ~~strikeout~~.

Note: Include affected page number(s): Pages 1, 5, A-1.

**Justification and Impacts of Change:**

The twelve new perched water extraction and monitoring wells are expected to enhance the extraction rate and monitoring capability for the perched water in the deep vadose zone of the 200-DV-1 Operable Unit. The actual schedule for installation, construction, and operation of the extraction and monitoring wells will be determined based on priority of Hanford Site work activities and available funding each FY.

**Approvals:**

 DOE Project Manager	12/16/2019 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
N/A EPA Project Manager	Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
 Ecology Project Manager	12/16/19 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved

## 1 Purpose

This waste management plan establishes the requirements for management and disposal of waste associated with implementation of a non-time-critical removal action for perched water in accordance with DOE/RL-2014-37, *Removal Action Work Plan for 200-DV-1 Operable Unit Perched Water Pumping / Pore Water Extraction*, and DOE/RL-2014-51, *Sampling and Analysis Plan for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction*. Waste will be managed in accordance with this waste management plan and DOE/RL-2011-41, *Hanford Site Strategy for Management of Investigation Derived Waste*. The non-time-critical removal action activities completed for DOE/RL-2014-37 and DOE/RL-2014-51 support implementation of DOE/RL-2014-34, *Action Memorandum for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction*. This waste management plan supersedes waste management requirements provided in DOE/RL-2011-40, *Field Test Plan for the Perched Water Pumping/Pore Water Extraction Treatability Test*.

The contaminants of concern (COCs) applicable to extracted perched water are uranium, technetium-99, nitrate, total chromium, hexavalent chromium, and tritium (DOE/RL-2014-34).

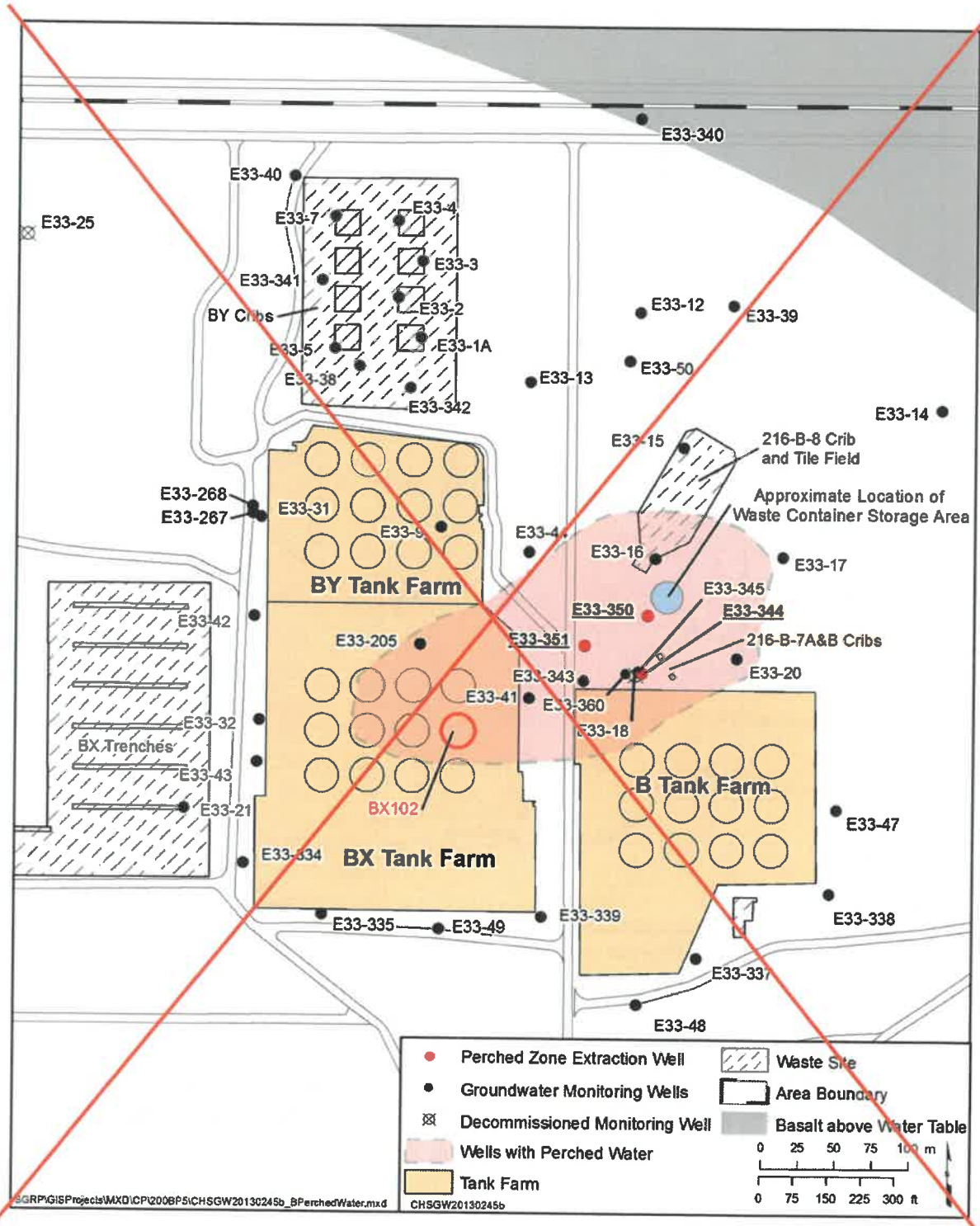
### 1.1 Waste Generation Activity

Perched water will be extracted from ~~three wells (299-E33-344, 299-E33-350, and 299-E33-351)~~ in the B Complex area in accordance with DOE/RL-2014-37. The perched water will be pumped to an 11,356 L (3,000 gal) aboveground polyethylene container located near the extraction wells. The contaminated water in the container will be transferred to the 200 West Pump and Treat (P&T) by tanker truck or by pipeline (once a pipeline is constructed). The COCs, with the exception of tritium, will be treated at the 200 West P&T in order to meet the aquifer injection criteria, the lower of drinking water maximum contaminant levels (MCLs) or WAC 173-340, "Model Toxics Control Act—Cleanup," Method B levels. There is no treatment method for tritium; however, the resulting combined discharge concentration from the 200 West P&T is expected to be below the MCL, except for nitrate for the duration of the 200-ZP-1 optimization study plan (DOE/RL-2019-38). The treated water will be injected into the underlying water table aquifer.

### 1.2 Projected Waste Streams

One or all of the following waste streams are anticipated and may fall into any combination of categories (radioactive, mixed, hazardous, dangerous, suspect radioactive, suspect dangerous, suspect mixed, and nonregulated):

- Miscellaneous solid waste (MSW) (e.g., rubber, glass, paper, personal protective equipment, cloth, plastic, and metal)
- Drill cuttings, soils, and slurries
- Equipment, construction, and decommissioning materials (e.g., well casing, drill string, drive barrel, construction equipment and materials, sampling equipment, decommissioning materials, and wooden pallets)
- Nondangerous/no-radiation-added (nonradioactive) solid waste (e.g., paper, wood, construction debris, metal, plastic, and glass)
- Unplanned release and associated cleanup material
- Decontamination fluids



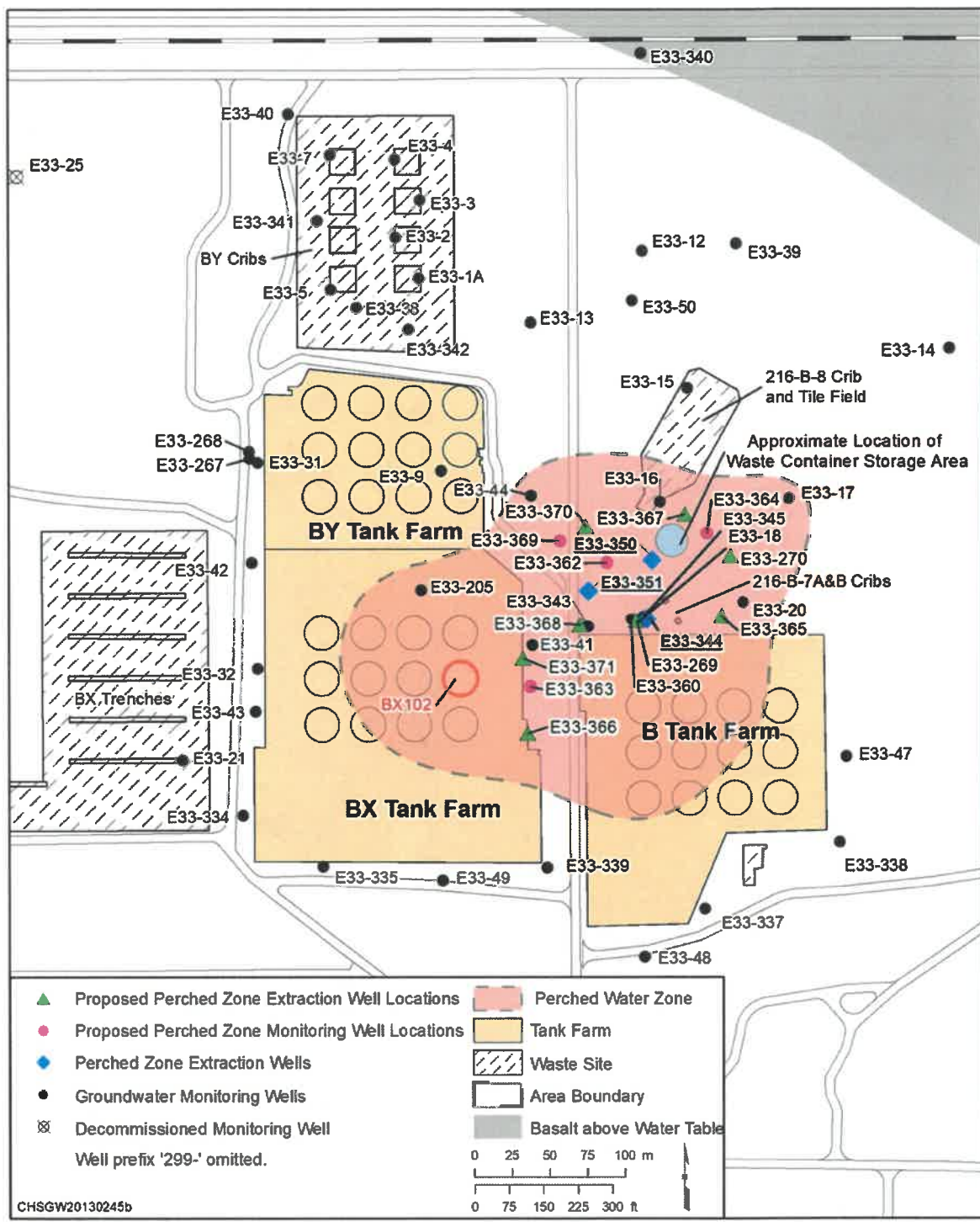


Figure 1. 200-DV-1 OU Perched Water Pumping/Pore Water Extraction Site in the B Complex Area

Table A-1 lists the extraction and monitoring wells within the 200-DV-1 Operable Unit perched water pumping/pore water extraction area delineated in Figure 1 of this waste management plan.

**Table A-1. Perched Water Pumping/Pore Water Extraction Well List**

Hanford Well Name	Hanford Well Identification Number
299-E33-16	A6855
299-E33-18	A4844
299-E33-20	A4847
299-E33-41	A4867
299-E33-205	C5989
299-E33-343	C5858
299-E33-344	C5859
299-E33-350	C8914
299-E33-351	C8915
<u>299-E33-269</u>	<u>D0112</u>
<u>299-E33-270</u>	<u>D0113</u>
<u>299-E33-362</u>	<u>D0121</u>
<u>299-E33-363</u>	<u>D0122</u>
<u>299-E33-364</u>	<u>D0123</u>
<u>299-E33-365</u>	<u>D0124</u>
<u>299-E33-366</u>	<u>D0125</u>
<u>299-E33-367</u>	<u>D0126</u>
<u>299-E33-368</u>	<u>D0127</u>
<u>299-E33-369</u>	<u>D0128</u>
<u>299-E33-370</u>	<u>D0129</u>
<u>299-E33-371</u>	<u>D0120</u>