Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

19-SGD-0035

JUL 15 2019

Mr. Craig E. Cameron, Program Manager
Office of Environmental Cleanup
Site Cleanup Unit 4
U.S. Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, Washington 99352

Ms. Alexandra K. Smith, Program Manager
Nuclear Waste Program
Washington State Department of Ecology
3100 Port of Benton Boulevard
Richland, Washington 99354

Addressees:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) MILESTONE M-024-70

This letter documents completion of Tri-Party Agreement Milestone M-024-70, "DOE shall complete the construction of all wells listed for Calendar Year 2019 and before, as identified in Attachment 1 of Tri-Party Agreement Change Control Form M-24-19-01," signed June 17, 2019.

The installation of a total of 30 wells was completed on May 2, 2019, well in advance of the required December 31, 2019, due date. Attached is the listing of M-24 Calendar Year 2019 Wells Completed.

If you have any questions, please contact me, or your staff may contact Mike Cline, of my staff, on (509) 376-6070.

Sincerely,

William F. Hamel, Assistant Manager
for the River and Plateau

AMRP:KLH

Attachment

cc: See page 2

JUL 15 2019

cc w/attach:
J. Atwood, YN
S. G. Austin, CHPRC
J. Bell, NPT
S. L. Brasher, MSA
R. Buck, Wanapum
D. P. Capelle, CHPRC
L. Contreras, YN
S. W. Davis, MSA
D. R. Einan, EPA
D. Goswami, Ecology
M. Johnson, CTUIR
S. Leckband, HAB
N. M. Menard, Ecology
K. Niles, ODOE
J. B. Price, Ecology
S. N. Schleif, Ecology
Administrative Record (M-024-70)
Environmental Portal

M-24 Calendar Year 2019 Wells Completed

TEMP 2019 #S	Well ID	OU or Area	Well Name	Facility and/or Program	Justification/Purpose/Location	Comment	Completion Calendar Year
1	C9705	300-FF-5	399-1-161	CERCLA	Monitoring Well Aquifer paired with C9691	Accepted 5/31/2017	M-024 CY2019
2	C9706	300-FF-5	399-1-162	CERCLA	Monitoring Well Aquifer paired with C9697	Accepted 5/31/2017	M-024 CY2019
3	C9567	200-UP-1	299-W19-123	CERCLA	UP-1 RDRA Work Plan Monitoring Well #14 Dual Purpose 8" located south of U Plant off of 16th Ave support groundwater plume characterization. Monitor high conc. uranium plume near U Plant	Accepted 7/11/2017	M-024 CY2019
4	C9712	100-KR-4	199-K-228	CERCLA	Monitoring well downgradient of KE Head House and 199-K-11A to monitoring hexavalent chromium and define the plume in that area.	Accepted 8/17/2017	M-024 CY2019
5	C9711	100-KR-4	199-K-227	CERCLA	Monitoring well at K-1 Burial Ground, placed in the southern portion of the former 118-K-1 Burial Ground to monitor potential continuing tritium contributions from residual vadose zone sources.	Accepted 8/17/2017	M-024 CY2019
6	C9713	100-KR-4	199-K-229	CERCLA	Monitoring hexavalent chromium and define the plume in that area. Define migration south of the KW Switch Yard and downgradient of the KW Head House due to a more natural flow gradient	Accepted 8/17/2017	M-024 CY2019
7	C9714	100-KR-4	199-K-230	CERCLA	Monitoring well between KW and KE reactors to connect the hydraulic connection between KE and KW as well as help delineate TCE.	Accepted 8/17/2017	M-024 CY2019
8	C9616	200-PO-1	299-E26-80	RCRA/ CERCLA	216-A-29 Ditch - downgradient well New well to be drilled for use in downgradient monitoring in the revised 216-A-29 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan.	Accepted 8/17/2017	M-024 CY2019
9	C9617	200-PO-1	299-E25-238	RCRA/ CERCLA	216-A-29 Ditch - downgradient well New well to be drilled for use in downgradient monitoring in the revised 216-A-29 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan.	Accepted 8/17/2017	M-024 CY2019
10	C9618	200-PO-1	299-E25-239	RCRA/ CERCLA	216-A-29 Ditch - Replacement downgradient well (Non-WAC comp) under Vit Plant Power line replacement well for A4771 (299-E25-26) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network. Location under power line limits ability to access well for pump repairs and well cleaning. A new well serving the same monitoring purpose should be installed in the general vicinity.	Accepted 8/17/2017	M-024 CY2019
11	C9615	200-PO-1	699-44-43C	RCRA/ CERCLA	B-3 Pond and Ditch - downgradient well New well to be drilled for use in upgradient monitoring in the revised 216-B-3 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan. This well also replaces dry well 699-44-43B.	Accepted 8/17/2017	M-024 CY2019
12	C9630	200-PO-1	299-E25-95	RCRA/ CERCLA	216-A37-1 Well is planned to improve downgradient coverage at the point of compliance	Accepted 8/17/2017	M-024 CY2019
13	C9632	200-UP-1	699-27-68	CERCLA	Characterize vertical and lateral southern extent of SE Cr plume	Accepted 8/31/2017	M-024 CY2019
14	C9634	200-UP-1	699-29-55	CERCLA	Bound southern extent of SE Cr plume; depends on results from C9632 (699-27-68)	Accepted 9/28/2017	M-024 CY2019
15	C9635	200-UP-1	699-30-70	CERCLA	Bound western extent of SE Cr plume	Accepted 8/31/2017	M-024 CY2019
16	C9737	200-UP-1	699-31-50	CERCLA	Well to bound the southeast chromium plume to the east of well 699-31-53B, in which chromium has been detected at 49 ug/L. The new well is near where the water table transitions from the Ringold Fm to the Hanford fm. It will help to verify the conceptual model that concentrations would decline rapidly when the plume reaches the Hanford farm.	Accepted 12/5/2017	M-024 CY2019
17	C9636	200-UP-1	699-30-73	CERCLA	Bound extent of SE Chrome plume	Accepted 12/14/2017	M-024 CY2019
18	C9608	200-UP-1	699-38-64B	CERCLA	UP-1 RDRA Work Plan Monitoring Well I-129 plume hydraulic control remedy performance	Accepted 4/24/2018	M-024 CY2019
19	C9607	200-UP-1	699-39-68	CERCLA	UP-1 RDRA Work Plan Monitoring Well Monitor northern extent of I-129 plume	Accepted 6/26/2018	M-024 CY2019
20	C9870	300-FF-5	699-S6-E3	CERCLA	618-10 well will be downgradient from the 618-10 Burial Ground and 316-4 Crib. In accordance with DOE/RL-2014-42, 300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan, the wells should be monitored before, during, and after remediation of the associated waste site. The data will be evaluated to determine whether there is evidence of new contaminant releases to the environment that could impact the effectiveness of the remedy.	Accepted 6/7/2018	M-024 CY2019
21	C9919	100-KR-4	199-K-231	CERCLA	Characterize the extent of the CrVI plume between the 183-KE Headhouse and the 118-K-1 Burial Ground (pending results of FY17 monitoring well 199-K-228) South of the 151KE electrical substation.	Accepted 7/25/2018	M-024 CY2019
22	C9920	100-KR-4	199-K-232	CERCLA	Monitoring well between 199-K-144 and 199-K-145 to define hydraulics as well as characterize any CrVI secondary source material that may remain that causes exceedances in aquifer tubes AT-K-3-D,M,S. Northern corner of 116-K-1 Crib	Accepted 7/9/2018	M-024 CY2019
23	C9922	100-KR-4	199-K-234	CERCLA	Update the conceptual site model and support definition/delineation of the Cr(VI), Sr-90, C-14, and tritium plumes downgradient of well 199-K-141	Accepted 9/10/2018	M-024 CY2019
24	C9973	100-KR-4	199-K-235	CERCLA	Dual Purpose Well - Soil flushing treatability test plan	Accepted 1/8/2019	M-024 CY2019
25	C9974	100-KR-4	199-K-236	CERCLA	Dual Purpose Well - Soil flushing treatability test plan	Accepted 1/8/2019	M-024 CY2019

M-24 Calendar Year 2019 Wells Completed

26	C9987	100-HR-3	199-H3-12	CERCLA	RUM monitoring well at 183-H Solar Evaporation Basin for plume delineation	Accepted 4/11/2019	M-024 CY2019
27	C9989	100-HR-3	199-H3-13	CERCLA	RUM monitoring well	Accepted 4/11/2019	M-024 CY2019
28	C9724	100-HR-3	199-H3-32	CERCLA	RUM monitoring well for plume delineation. Needed for extraction or monitoring depending upon concentrations found in the first water bearing unit of the RUM. Recommend well for pump and treat optimization	Accepted 4/11/2019	M-024 CY2019
29	C9933	100-HR-3	699-95-45C	CERCLA	RUM monitoring well in the southern portion of the Horn area for plume delineation and geologic characterization.	Accepted 5/1/2019	M-024 CY2019
30	C9936	200-ZP-1	699-46-61	CERCLA	Monitoring well MW-6 A/B. Improved understanding of the far-field transport and attenuation over time. Need to help long-term contaminant migration predictions.	Accepted 5/2/2019	M-024 CY2019