



U.S. Department of Energy Hanford Site

20-SGD-0058

July 23, 2020

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

Mr. David R. Einan, Program Manager
Office of Environmental Cleanup
U.S. Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, Washington 99352

Addressees:

**COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT
ORDER (TRI-PARTY AGREEMENT) TARGET DATE M-024-71-T01 AND APPROVED
CHANGE CONTROL FORM M-24-20-01**

This letter documents completion of Tri-Party Agreement target date M-024-71-T01, "Conclude discussions of well commitments initiated under M-024-58 by August 1, 2020," with the approved Change Control Form M-24-20-01 (attached).

The U.S. Department of Energy Richland Operations Office appreciates the timely participation from the U.S. Environmental Protection Agency and the Washington State Department of Ecology in establishing the attached M-024 Well Priority List for Fiscal Years 2021 through 2023.

If you have any questions, please contact me, or your staff may contact, Kathy Higgins, of my staff, on (509) 376-3658.

Sincerely,

Michael W. Cline Digitally signed by Michael W.
Cline
Date: 2020.07.23 16:20:14 -07'00'

Michael W. Cline, Director
Soil and Groundwater Division
Richland Operations Office

SGD:KLH

Attachments:

1. Change Control Form M-24-20-01
2. M-024 Well Priority List for
Fiscal Years 2020 through 2023

cc w/attachs:

T. B. Bergman, CHPRC
W. F. Barrett, CHPRC
D. B. Bartus, EPA
J. Bell, NPT
S. L. Brasher, MSA
R. Buck, Wanapum
L. Contreras, YN
S. W. Davis, MSA
D. R. Einan, EPA
R. E. Fox, CHPRC
D. Goswami, Ecology
B. J. Howard, CHPRC
S. Leckband, HAB
N. M. Menard, Ecology
M. Murphy, CTUIR
K. Niles, ODOE
J. B. Price, Ecology
S. N. Schleif, Ecology
K. R. Welsch, Ecology
Administrative Record (M-024-58, M-024-58M, M-024-71,
M-024-71-T01, M-024-72, M-024-73, M-024-74, M-024-74-T01)
Environmental Portal

Change Number M-24-20-01	Federal Facility Agreement and Consent Order Change Control Form	Date 6/24/2020
------------------------------------	---	--------------------------

Originator Michael Cline	Phone 376-6070
------------------------------------	--------------------------

Class of Change <input type="checkbox"/> I – Signatories	<input checked="" type="checkbox"/> II – Executive Managers	<input type="checkbox"/> III – Project Managers
--	---	---

Change Title
Groundwater Protection, Monitoring, and Remediation Well Installation Priority List Update Through CY 2023, Including New Interim Milestone and Target Date

Description/Justification of Change

This change control form completes the 2020 Hanford Federal Facility Agreement and Consent Order target date M-024-71-T01 requirement to conclude discussions of groundwater monitoring well commitments initiated under M-024-58 by the August 1, 2020 due date. This change control form also adds one new interim M-024 milestone to incorporate well installations needed to maintain a three-year rolling prioritized schedule consistent with the site-wide cleanup priorities. Replacement of serviceable monitoring wells not meeting regulatory construction specifications is deferred to support groundwater remediation needs.

The Parties have successfully concluded discussions, and by approval of this change control form, establish the interim TPA milestone M-024-74 for completion of Calendar Year (CY) 2023 well installations. This change control form also creates the M-024-74-T01 target date for concluding well discussions by August 1, 2023.

The Parties agree that when a monitoring well is drilled and subsequently found to be “dry” that the well will still count toward meeting M-024 well drilling totals.


Continued on page 2

Impact of Change

This change control form provides for continued installation of new groundwater protection, monitoring, and remediation wells. This change control form updates the list of monitoring wells planned to be drilled/constructed in CY 2020 for milestone M-024-71 as well as provides the new three-year rolling list of wells for CY 2021 through CY 2023. This change control form also creates interim milestone M-024-74 and target date M-024-74-T01.

Affected Documents

Tri-Party Agreement Action Plan Appendix D, “Work Schedule Milestones and Target Dates Including Designation of Lead Regulatory Agency.”

Approvals				
 William Hamel, DOE-RL	7/20/2020	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>	Page 1 of 3
DAVID EINAN	Digitally signed by DAVID EINAN Date: 2020.07.23 14:46:38 -07'00'	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>	
D.R. Einan, EPA	Date			
Smith, Alex (ECY)	Digitally signed by Smith, Alex (ECY) Date: 2020.07.21 09:23:30 -07'00'	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>	
A.K. Smith, Ecology	Date			

Description/Justification of Change (continued)

Approval of this change control form updates the list of monitoring wells planned to be drilled/constructed in CY 2021 and CY 2022, as well as provides the list of wells for CY 2023. Monitoring wells identified to be drilled/constructed in the years CY 2021 through CY 2023 are identified in the attached table. These wells are part of a CERCLA/RCRA-CERCLA past practice operable unit, and are part of an applicable waste control plan or CERCLA waste management plan. The attached table also shows additional wells tentatively planned for later years. Dates not set are pending evaluation of engineering studies, other related reports, and observations as requested by the Washington State Department of Ecology.

Authorized Changes

Modifications to HFFACO Appendix D, "Milestones and Target Dates Including Designation of Lead Regulatory Agency," are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

Number	Milestone	Due Date
<p>M-024-71 Lead Regulatory Agency: Ecology</p>	<p>DOE shall complete the construction of all wells listed for calendar year 2020 and before, as identified in TPA change package M-24-17-01<u>M-24-20-01</u>.</p> <p>This milestone series will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.</p> <p>These milestones do not preclude or foreclose the imposition of additional groundwater well installations pursuant to RCRA permits or work plans and/or CERCLA work plans. Additional work or modification to work shall be in accordance with the provisions of Article XXX of the Agreement.</p>	<p>12/31/2020</p>
<p>M-024-72 Lead Regulatory Agency: Ecology</p>	<p>DOE shall complete the construction of all wells listed for calendar year 2021 and before, as identified in TPA change package M-24-18-01<u>M-24-20-01</u>.</p> <p>This milestone series will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.</p> <p>These milestones do not preclude or foreclose the imposition of additional groundwater well installations</p>	<p>12/31/2021</p>

	<p>pursuant to RCRA permits or work plans and/or CERCLA work plans. Additional work or modification to work shall be in accordance with the provisions of Article XXX of the Agreement.</p>	
<p>M-024-73 Lead Regulatory Agency: Ecology</p>	<p>DOE shall complete the construction of all wells listed for calendar year 2022 and before, as identified in TPA change package M-24-19-01<u>M-24-20-01</u>.</p> <p>This milestone series will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.</p> <p>These milestones do not preclude or foreclose the imposition of additional groundwater well installations pursuant to RCRA permits or work plans and/or CERCLA work plans. Additional work or modification to work shall be in accordance with the provisions of Article XXX of the Agreement.</p>	<p>12/31/2022</p>
<p><u>M-024-74</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>DOE shall complete the construction of all wells listed for calendar year 2023 and before, as identified in TPA change package M-24-20-01.</u></p> <p><u>This milestone series will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.</u></p> <p><u>These milestones do not preclude or foreclose the imposition of additional groundwater well installations pursuant to RCRA permits or work plans and/or CERCLA work plans. Additional work or modification to work shall be in accordance with the provisions in Article XXX of the TPA Legal Agreement.</u></p>	<p><u>12/31/2023</u></p>
<p><u>M-024-74-T01</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Conclude discussions of well commitments initiated under M-024-58.</u></p>	<p><u>08/01/2023</u></p>

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
2	1	C9719	100-HR-3	199-H7-1	CERCLA	RUM monitoring well in northern portion of the Horn 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 RUM aquifer monitoring well in the northwest 100-H area for plume delineation and geologic characterization.	Accepted 5/16/2019	M-024 CY2020
3	2	C9931	100-HR-3	199-H1-50	CERCLA	RUM monitoring well in northern portion of the Horn 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 RUM aquifer monitoring well in the northwest 100-H area for plume delineation and geologic characterization.	Accepted 5/16/2019	M-024 CY2020
4	3	C9738	200-ZP-1	299-W6-17	CERCLA	Monitoring well MW-2A. Investigate contamination "escaping" to the northeast and not fully captured.	Accepted 7/11/2019	M-024 CY2020
5	4	C9740	200-ZP-1	699-44-70B	CERCLA	Monitoring well MW-8 A/B. Identify divide between the extraction wells and injection wells in order to properly dial in the pumping rates.	Accepted 7/11/2019	M-024 CY2020
6	5	C9869	300-FF-5	399-4-16	CERCLA	324 well will be downgradient from the 324 Building and the contaminated soil below the B Cell. In accordance with DOE/RL-2014-42, 300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan, the wells should be	Accepted 6/26/2019	M-024 CY2020
7	6	D0041	200-PO-1	299-E17-57	RCRA/ CERCLA	EER identified well in SGW-62007 IDF_PW-4 monitoring well	Accepted 8/7/2019	M-024 CY2020
8	7	C9954	200-UP-1	299-W19-131	CERCLA	Monitoring (uranium, technetium-99, and nitrate plumes) PMP Monitoring well. Address uncertainty concerning eastern extent of uranium plume approximately 200 m upgradient from 299-W19-116	Accepted 8/20/2019	M-024 CY2020
9	8	C9955	200-UP-1	299-W20-1	CERCLA	Monitoring (uranium, technetium-99, and nitrate plumes) PMP Monitoring well. Address uncertainty concerning eastern extent of uranium plume approximately 400 m upgradient from 299-W19-116	Accepted 8/20/2019	M-024 CY2020
10	9	C9872	100-FR-3	699-71-24	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	Accepted 8/20/2019	M-024 CY2020
11	10	C9873	100-FR-3	699-68-29	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	Decommissioned	M-024 CY2020
12	11	C9874	100-FR-3	699-60-27	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	Accepted 8/20/2019	M-024 CY2020
13	12	C9875	100-FR-3	699-73-30	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	Accepted 8/20/2019	M-024 CY2020
14	13	C9877	100-FR-3	699-77-34B	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480) replacing Non-WAC A4603 199-F7-1	Accepted 8/20/2019	M-024 CY2020
15	14	C9985	100-FR-3	699-70-29	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells	Accepted 8/20/2019	M-024 CY2020
16	15	D0130	100-FR-3	699-71-30C	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells	Accepted 8/20/2019	M-024 CY2020
17	16	D0004	300-FF-5	699-56-E3B	AEA/CERCLA	Replacement well for C4073 699-56-E4L, decommissioned 8/26/2015, due to the 618-10 burial grounds excavation. Prior to decommissioning the well exhibited a sharp increase in uranium concentration from 2012 to 2015, which may have	Accepted 8/22/2019	M-024 CY2020
18	17	D0038	200-PO-1	299-E17-56	RCRA/ CERCLA	EER identified well in SGW-62007 IDF_PW-1 monitoring well	Accepted 9/23/2019	M-024 CY2020
19	18	C9752	200-BP-5	299-E28-34	CERCLA	Dual-Use Monitoring/Extraction well per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP. Located in the 200 East Area southwest of the B Tank Farm	Accepted 9/24/2019	M-024 CY2020
20	19	C9753	200-BP-5	299-E27-137B	CERCLA	Dual-Use Monitoring/Extraction well per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP. Located in the 200 East Area southwest of the B Tank Farm	Accepted 9/24/2019	M-024 CY2020
21	20	C9604	200-UP-1	299-W19-126	CERCLA	Dual-Use Monitoring/Extraction (U Plant area uranium and technetium-99 plumes) PMP Monitoring Well. Monitor I-129, NO3, Tc-99, H-3, and U west of U Plant; source monitoring for I 129, NO3, Tc-99, and U downgradient of 216-U-1/2	Accepted 9/24/2019	M-024 CY2020
22	21	C9953	200-UP-1	699-37-67	CERCLA	Replacement of A5139 699-35-66A at ERDF which is non-WAC compliant and is anticipated to go dry; the new well will be about 900 meters NNW of 699-35-66A, which was determined to be more down-gradient of ERDF due to changing	Accepted 9/30/2019	M-024 CY2020
23	22	C9871	200-UP-1	699-36-65	CERCLA	Replacement of ERDF well due to cell #11 expansion (future need for ERDF expansion - planned FY2020) Will need to decommission C6219 699-36-66B	Accepted 9/30/2019	M-024 CY2020
24	23	D0040	200-PO-1	299-E24-164	RCRA/ CERCLA	EER identified well in SGW-62007 IDF_PW-3 monitoring well	Accepted 9/30/2019	M-024 CY2020
25	24	C9750	200-BP-5	699-47-55	CERCLA	Remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP, located just outside of the 200 East Area in the 600 Area north of BX/BY Tank Farm	Accepted 2/4/2020	M-024 CY2020
26	25	C9751	200-BP-5	699-47-53B	CERCLA	Remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP, located just outside of the 200 East Area in the 600 Area north of BX/BY Tank Farm	Accepted 2/4/2020	M-024 CY2020
27	26	D0089	100-KR-4	199-K-239	CERCLA	Replacement well for A4644 (199-K-13) Non-WAC compliant due to the lack of a continuous annular seal around the casing. In 2017, well 199-K-23 was decommissioned to support waste site remediation efforts. However, prior to	Accepted 3/12/2020	M-024 CY2020

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
28	27	D0090	100-KR-4	199-K-240	CERCLA	Well to support future soil flushing activities at 183.1 KE Headhouse and target elevated Cr(VI) concentrations observed during 2018.	Accepted 3/12/2020	M-024 CY2020
29	28	C9723	100-HR-3	199-H3-31	CERCLA	Southeast 100-H 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	Planned to be accepted by 9/30/2020	M-024 CY2020
30	29	C9932	100-HR-3	199-H4-94	CERCLA	100-H; next to 199-H1-45 Install new RUM aquifer monitoring well in the area between the Horn and 100-H for plume delineation and geologic characterization.	Planned to be accepted by 9/30/2020	M-024 CY2020
31	30	C9934	100-HR-3	699-96-42B	CERCLA	100-H Area (Horn) next to 199-H4-75 at outer edge of 100-H Install new RUM aquifer monitoring well in the border between 100-H and the Horn for plume delineation and geologic characterization.	Planned to be accepted by 9/30/2020	M-024 CY2020
32	31	C9721	100-HR-3	699-95-48B	CERCLA	Needed for monitoring, characterization, and delineation of contamination in the first water bearing unit of the RUM. Potential for extraction in FY21 depending on concentrations identified.		M-024 CY2021
33	32	C9930	100-HR-3	699-95-48C	CERCLA	100-H Horn next to 199-H4-80 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		M-024 CY2021
34	33	C9928	100-HR-3	699-98-50	CERCLA	100-D Area (Horn) next to existing well 699-98-49A Install new RUM aquifer monitoring well in the north central Horn area for plume delineation and geologic characterization.		M-024 CY2021
35	34	C9929	100-HR-3	199-D11-1	CERCLA	100-D Area (Horn) next to existing well D7-6 Install new RUM aquifer monitoring well in the northwest Horn area for plume delineation and geologic characterization. Needed for monitoring, characterization, and delineation of		M-024 CY2021
36	35	C9722	100-HR-3	199-D7-7	CERCLA	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		M-024 CY2021
37	36	C9867	200-PO-1	699-43-43B	RCRA/ CERCLA	Replacement for well B8758 699-43-44 due to failed casing, critical downgradient RCRA well B-Pond replacement well (C9867) – RCRA replacement well; recommend delay installation until the Engineering Report is approved by Ecology		M-024 CY2021
38	37	C9726	200-BP-5	299-E35-6	RCRA/AEA/CE RCLA	Downgradient of Trench 94 for AEA. Trench 94 contains Naval reactors from decommissioned vessels and has no groundwater monitoring. LLWMA-2 monitoring well - East of Trench 94 - Upgradient Contingent on results of		M-024 CY2021
39	38	D0210	200-BP-5	299-E26-81	RCRA/ CERCLA	New well for the Liquid Effluent Retention Facility (LERF) Basin 41 expansion. The well is being constructed to support long term RCRA groundwater monitoring as described in SGW-41072, LERF Engineering Evaluation and Characterization		M-024 CY2021
40	39	D0081	200-ZP-1	299-W19-133	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast of U Plant Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic properties,		M-024 CY2021
41	40	D0082	200-ZP-1	699-46-70	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2021
42	41	D0059	200-BP-5	299-E33-272	RCRA/ CERCLA	EER identified well in SGW-60590, LLBG-1 LLBGWMA-1_PW-1		M-024 CY2021
43	42	D0060	200-BP-5	299-E33-276	RCRA/ CERCLA	EER identified well in SGW-60590, LLBG-1 LLBGWMA-1_PW-2		M-024 CY2021
44	43	D0061	200-BP-5	299-E28-35	RCRA/ CERCLA	EER identified well in SGW-60590, LLBG-1 LLBGWMA-1_PW-3		M-024 CY2021
45	44	D0056	200-PO-1	216-A-29_PW-4	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-4, downgradient of 216-A-29 Ditch		M-024 CY2021
46	45	D0057	200-PO-1	216-A-29_PW-5	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-5, downgradient of 216-A-29 Ditch		M-024 CY2021
47	46	D0058	200-PO-1	216-A-29_PW-6	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-6, downgradient of 216-A-29 Ditch		M-024 CY2021
48	47	D0046	200-PO-1	216-A-37-1_PW-1	RCRA/ CERCLA	EER identified well in SGW-60593 216-A-37-1_PW-1		M-024 CY2021
49	48	D0047	200-PO-1	216-A-37-1_PW-2	RCRA/ CERCLA	EER identified well in SGW-60593 216-A-37-1_PW-2		M-024 CY2021
50	49	D0220	200-PO-1	TBD	RCRA/ CERCLA	Replacement well for A6031 (299-E25-17) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. EER identified well in SGW-60593 216-A-37-1		M-024 CY2021
51	50	D0221	200-PO-1	TBD	RCRA/ CERCLA	Replacement well for A4765 299-E25-19 Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. EER identified well in SGW-60593 216-A-37-1		M-024 CY2021
52	51	D0222	200-PO-1	TBD	RCRA/ CERCLA	Replacement well for A4767 (299-E25-20) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. (also identified as a downgradient monitoring		M-024 CY2021
53	52	D0049	200-PO-1	216-B-3_PW-1	RCRA/ CERCLA	EER identified well in SGW-60591. 216-B-3_PW-1		M-024 CY2021

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
54	53	D0050	200-PO-1	216-B-3_PW-2	RCRA/ CERCLA	EER identified well in SGW-60591, 216-B-3_PW-2		M-024 CY2021
55	54	D0051	200-PO-1	216-B-3_PW-3	RCRA/ CERCLA	EER identified well in SGW-60591, 216-B-3_PW-3		M-024 CY2021
56	55	D0052	200-PO-1	216-B-3_PW-4	RCRA/ CERCLA	EER identified well in SGW-60591, 216-B-3_PW-4		M-024 CY2021
57	56	D0034	200-UP-1	216-S-10_PW1	RCRA/ CERCLA	EER identified well, Chrome characterization well #1 in SGW-60585 216-S-10_PW1		M-024 CY2021
58	57	D0035	200-UP-1	216-S-10_PW2	RCRA/ CERCLA	EER identified well, Chrome characterization well #2 in SGW-60585 216-S-10_PW2		M-024 CY2021
59	58	D0036	200-UP-1	216-S-10_PW3	RCRA/ CERCLA	EER identified well, Chrome characterization well #3 in SGW-60585 216-S-10_PW3		M-024 CY2021
60	59	D0037	200-UP-1	216-S-10_PW4	RCRA/ CERCLA	EER identified well, Chrome characterization well #4 in SGW-60585 216-S-10_PW4		M-024 CY2021
61	60	C9965	200-PO-1	TBD	RCRA/ CERCLA	Replacement of A4728 299-E17-1 Non-WAC compliant, starting to show some possible signs of casing corrosion - evidence is unfiltered metals values are higher than filtered metals. It is currently being used in the CERCLA network as		M-024 CY2021
62	61	D0013	200-ZP-1	299-W10-201	RCRA/ CERCLA	EER identified well in SGW-59564 T-31-34_PW-1		M-024 CY2022
63	62	D0014	200-ZP-1	299-W10-202	RCRA/ CERCLA	EER identified well in SGW-59564 T-31-34_PW-2		M-024 CY2022
64	63	D0015	200-ZP-1	299-W10-203	RCRA/ CERCLA	EER identified well in SGW-59564 T-31-34_PW-3		M-024 CY2022
65	64	TBD	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of C3396 299-W10-8 Sample dry. Consider replacement once 200W P&T reaches max operating conditions. Also non-WAC compliant due to the lack of a continuous annular seal around the casing Successfully		M-024 CY2022
66	65	TBD	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of A4902 299-W11-12 WMA-T Non-WAC compliant due to the lack of a continuous annular seal around the casing. Recommend decommissioning since it has been removed from the network (sample dry) and it is not needed.		M-024 CY2022
67	66	TBD	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of A7136 299-W10-1 WMA-T Non-WAC compliant due to the lack of a continuous annular seal around the casing		M-024 CY2022
68	67	C9969	200-ZP-1	TBD	RCRA/ CERCLA	Replacement well for 299-W14-15 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells and not have to		M-024 CY2022
69	68	C9970	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of B8549 299-W14-13 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells. Successfully		M-024 CY2022
70	69	C9971	200-ZP-1	TBD	RCRA/ CERCLA	Replacement well for 299-W14-18 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells. Successfully		M-024 CY2022
71	70	TBD	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of B8548 299-W10-26 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells. Successfully		M-024 CY2022
72	71	TBD	200-ZP-1	TBD	RCRA/ CERCLA	Replacement of B8547 299-W14-14 which expected to go dry in 2016 installed low-purge volume bladder pumps anticipating that sampling with low-purge volume pumps will allow us to continue to sample these wells and not have		M-024 CY2022
73	72	D0028	200-ZP-1	LLBG-4 WMA-4_PW1	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW1		M-024 CY2022
74	73	D0029	200-ZP-1	LLBG-4 WMA-4_PW2	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW2		M-024 CY2022
75	74	D0030	200-ZP-1	LLBG-4 WMA-4_PW3	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW3		M-024 CY2022
76	75	D0031	200-ZP-1	LLBG-4 WMA-4_PW4	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW4		M-024 CY2022
77	76	D0032	200-ZP-1	LLBG-4 WMA-4_PW5	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW5		M-024 CY2022
78	77	D0033	200-ZP-1	LLBG-4 WMA-4_PW6	RCRA/ CERCLA	EER identified well in SGW-60584 LLBG-4 WMA-4_PW6		M-024 CY2022
79	78	D0022	200-ZP-1	LLBG-3 WMA-3_PW1	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW1		M-024 CY2022

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
80	79	D0064	200-BP-5	216-B-63_PW-2	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-2		M-024 CY2022
81	80	D0065	200-BP-5	216-B-63_PW-3	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-3		M-024 CY2022
82	81	D0080	200-ZP-1	299-W13-4	CERCLA	Characterization monitoring well of the Rwia (FY21) West of 200 West Process Building Sufficient data must be collected in the study area to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2022
83	82	D0083	200-ZP-1	699-45-67C	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2022
84	83	D0084	200-ZP-1	299-W14-26	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2022
85	84	D0085	200-ZP-1	699-40-70	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2022
86	85	TBD	200-ZP-1	TBD	CERCLA	RwiaK - Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic properties, hydraulic properties, and transport parameters of the Rwia, the Rlm,		M-024 CY2022
87	86	TBD	200-ZP-1	TBD	CERCLA	RwiaL - Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic properties, hydraulic properties, and transport parameters of the Rwia, the Rlm,		M-024 CY2022
88	87	C9921	100-KR-4	199-K-233	CERCLA	Define inland plume extent of CrVI plume that straddles the 100-KR/100-NR GWIA boundary Near 100-N-96 military camp CRR for this project (HCRC#2017-100-008/ECR-2017-118) has reached an "Adverse Effect" finding. This means		M-024 CY2022
89	88	C9739	200-ZP-1	299-W11-98	CERCLA	Enhance C-Tet plume delineation North of 200 West Process Building CERCLA MW-3A to further delineate the northern boundaries of the C-TET plume with concentrations >100 ug/L - rwia below the Rlm (Well priority in PMP DOE/RL-2009-		M-024 CY2022
90	89	C9994	200-ZP-1	299-W10-37	CERCLA	Enhance C-Tet plume delineation North of WMA T, TX-TY Improve monitoring coverage near the source areas north of the TX-TY and will better delineate areas with concentrations >100 ug/L in rwie (Well priority in PMP DOE/RL-2009-115		M-024 CY2022
91	90	C9995	200-ZP-1	299-W10-38	CERCLA	200-ZP-1 CERCLA Monitoring Well MW4B Performance Monitoring Plan (DOE/RL-2009-115 Rev. 2) drilling single wells with multiple screened intervals and sampling them with low-flow Spectra device to avoid mixing between.		M-024 CY2022
92	91	D0066	200-BP-5	216-B-63_PW-4	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-4		M-024 CY2023
93	92	D0067	200-BP-5	216-B-63_PW-5	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-5		M-024 CY2023
94	93	D0068	200-BP-5	216-B-63_PW-6	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-6		M-024 CY2023
95	94	C9914	200-BP-5	299-E27-40	RCRA/ CERCLA	Replacement well for C4125 299-E27-4 (which was decommissioned 12-11-17).WMA C. EER identified well in SGW-60588		M-024 CY2023
96	95	D0044	200-BP-5	299-E27-27	RCRA/ CERCLA	EER identified well in SGW-60588, WMA_C_PW-1		M-024 CY2023
97	96	D0045	200-BP-5	299-E27-28	RCRA/ CERCLA	EER identified well in SGW-60588, WMA_C_PW-2		M-024 CY2023
98	97	D0016	200-UP-1	299-W18-261	RCRA/ CERCLA	EER identified well in SGW-60578 WMA U PW1		M-024 CY2023
99	98	D0017	200-ZP-1	299-W10-199	RCRA/ CERCLA	EER identified well in SGW-60575 WMA-T_PW1		M-024 CY2023
100	99	D0018	200-ZP-1	299-W11-101	RCRA/ CERCLA	EER identified well in SGW-60575 WMA-T_PW2		M-024 CY2023
101	100	D0019	200-ZP-1	299-W11-102	RCRA/ CERCLA	EER identified well in SGW-60575 WMA-T_PW3		M-024 CY2023
102	101	D0063	200-BP-5	216-B-63_PW-1	RCRA/ CERCLA	EER identified well in SGW-60594 216-B-63_PW-1		M-024 CY2023
103	102	D0023	200-ZP-1	LLBG-3 WMA-3_PW2	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW2		M-024 CY2023
104	103	D0024	200-ZP-1	LLBG-3 WMA-3_PW3	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW3		M-024 CY2023
105	104	D0025	200-ZP-1	LLBG-3 WMA-3_PW4	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW4		M-024 CY2023

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
106	105	D0026	200-ZP-1	LLBG-3 WMA-3_PW5	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW5		M-024 CY2023
107	106	D0027	200-ZP-1	LLBG-3 WMA-3_PW6	RCRA/ CERCLA	EER identified well in SGW-60583 LLBG WMA-3_PW6		M-024 CY2023
108	107	C9982	200-UP-1	TBD	RCRA/ CERCLA	PMP Monitoring Well. Shallow source area monitoring, potentially for Cr, I-129, NO3, Tc-99, and H-3, downgradient of the 216 S-23 crib; to be paired with existing downgradient well (299-W19-6) that is screened deep		M-024 CY2023
109	108	C9566	200-UP-1	299-W22-123	AEA/CERCLA	216-S-20, S-22, immediately downgradient of Cr, I-129, 1,4-Dioxane. Replacement well for A7843 299-W22-20 which is sample dry. Monitor Cr, I-129, NO3, Tc-99, and H-3 downgradient of WMA S-SX and REDOX Plant;		M-024 CY2023
110	109	D0053	200-PO-1	216-A-29_PW-1	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-1, downgradient of 216-A-29 Ditch		M-024 CY2023
111	110	D0054	200-PO-1	216-A-29_PW-2	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-2, downgradient of 216-A-29 Ditch		M-024 CY2023
112	111	D0055	200-PO-1	216-A-29_PW-3	RCRA/ CERCLA	EER identified well in SGW-60592, 216-A-29_PW-3, downgradient of 216-A-29 Ditch		M-024 CY2023
113	112	C9935	100-HR-3	199-D1-1	CERCLA	Increase monitoring or injection capacity in 100 D Area.		M-024 CY2023
114	113	C9718	100-HR-3	199-D2-14	CERCLA	Southeast 100-D 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		M-024 CY2023
115	114	D0214	100-HR-3	TBD	CERCLA	Monitor, characterize, and delineate contamination in the first water bearing unit of the RUM. New FY20 well 199-H3-31 indicated Cr(VI) concentration of 85 ug/L, much higher than the expected range based on 10-20 ug/L plume contours.		M-024 CY2023
116	115	D0215	100-HR-3	TBD	CERCLA	Monitor, characterize, and delineate contamination in the first water bearing unit of the RUM.		M-024 CY2023
117	116	C9605	200-UP-1	299-W19-127	CERCLA	PMP Monitoring Well. Monitor primarily for NO3 and Tc-99 downgradient from WMA U; source monitoring for U downgradient of 216-U-14 Ditch. WMA U		M-024 CY2023
118	117	C9606	200-UP-1	299-W19-128	CERCLA	PMP Monitoring Well. Monitor primarily for NO3 and Tc-99 downgradient from WMA U; source monitoring for U downgradient of 216-U-14 Ditch. WMA U		M-024 CY2023
119	118	C8926	200-UP-1	299-W19-112	CERCLA	Replacement well for A4945 299-W19-12 Non-WAC compliant, east of U tank farm. Sample dry in 2018. WMA U		M-024 CY2023
120	119	TBD	200-PO-1	TBD	CERCLA	Replacement of A5123 699-31-31 due to Non-WAC compliant 200-PO-1 Far-field		M-024 CY2023
121	120	C9981	200-UP-1	TBD	AEA/CERCLA	PMP Monitoring Well. Source area monitoring for I-129 downgradient of 216-S-9 crib. 216-S-9 received 52 M liters of acidic process condensate from REDOX. No down gradient groundwater monitoring since 2012. Increasing nitrate		M-024 CY2023
122	121	D0048	200-PO-1	216-A-37-1_PW-3	RCRA/ CERCLA	EER identified well in SGW-60593 216-A-29 216-A-37-1_PW-3		M-024 CY2024
123	122	D0012	200-PO-1	299-E25-96	RCRA/ CERCLA	EER identified well in SGW-60586 WMA A-AX_PW1		M-024 CY2024
124	123	D0043	200-PO-1	WMA A-AX_PW-2	RCRA/ CERCLA	EER identified well in SGW-60586 WMA A-AX_PW2		M-024 CY2024
125	124	C9868	200-PO-1	TBD	RCRA/ CERCLA	Replacement well for 299-E25-41, casing corrosion identified in the screen interval. Potential for well going sample dry. Showing valuable information on upgradient contaminants that have come onto the A-AX site that are not necessarily		M-024 CY2024
126	125	D0020	200-ZP-1	299-W10-200	RCRA/ CERCLA	EER identified well in SGW-60576 WMA_TX-TY_PW1		M-024 CY2024
127	126	D0021	200-ZP-1	299-W15-231	RCRA/ CERCLA	EER identified well in SGW-60576 WMA_TX-TY_PW2		M-024 CY2024
128	127	C9968	200-PO-1	TBD	RCRA/ CERCLA	Replacement well for A4766 (299-E25-2) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used with the WMA A-AX RCRA well network as a downgradient well and providing acceptable data.		M-024 CY2024
129	128	D0062	200-BP-5	WMA_B-BX-BY_PW-1	RCRA/ CERCLA	EER identified well in SGW-60587, WMA_B-BX-BY_PW-1		M-024 CY2024
130	129	TBD	200-BP-5	TBD	RCRA/ CERCLA	Replacement of A4847 (299-E33-20) Non-WAC compliant due to the lack of a continuous annular seal around the casing. May go dry in the near future (may not need to be replaced, has water but high zinc due to galvanized pipe Well		M-024 CY2024
131	130	C9998	200-ZP-1	299-W13-3	CERCLA	MW9A - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2023

	A	C	D	E	F	G	H	I
1	TEMP 2020 #	Well ID	OU or Area	Well Name	Facility and/or	Justification/Purpose/Location	Comment	Completion Calendar Year
132	131	C9990	200-ZP-1	699-44-70C	CERCLA	MW8B - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2024
133	132	TBD	200-ZP-1	TBD	CERCLA	RwiaG - Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic properties, hydraulic properties, and transport parameters of the Rwia, the Rlm,		M-024 CY2024
134	133	TBD	200-ZP-1	TBD	CERCLA	RwiaG - Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic properties, hydraulic properties, and transport parameters of the Rwia, the Rlm,		M-024 CY2024
135	134	D0086	200-ZP-1	699-42-62	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2024
136	135	D0087	200-ZP-1	699-41-65	CERCLA	Characterization monitoring well of the Rwia (FY21) Northeast corner of 200 West Sufficient data must be collected in the study rwia to adequately define the nature and extent of the 200-ZP-1 OU COC plumes and the hydrogeologic		M-024 CY2024
137	136	C9980	200-UP-1	299-W19-132	AEA/CERCLA	PMP Monitoring Well. Replacement well for A4948 299-W19-2, decommissioned on 3/11/1998. Source area monitoring for U, NO3, H-3, and strontium-90 downgradient of the 216 U-8 crib. Crib received 379 M liters of process condensate		M-024 CY2024
138	137	D0003	200-UP-1	299-W22-125	AEA/CERCLA	216-S-1&2 received 160 M liters of acidic REDOX process condensate, confirmed release of fission products to groundwater, all nearby and down gradient wells are decommissioned, no current groundwater monitoring. All AEA		M-024 CY2024
139	138	C9927	200-ZP-1	299-W10-198	CERCLA	200-ZP-1 CERCLA Monitoring Well MW4A Performance Monitoring Plan (DOE/RL-2009-115 Rev. 2) drilling single wells with multiple screened intervals and sampling them with low-flow Spectra device to avoid mixing between.		M-024 CY2024
140	139	C9996	200-ZP-1	299-W14-24	CERCLA	200-ZP-1 CERCLA Monitoring Well MW5A Performance Monitoring Plan (DOE/RL-2009-115 Rev. 2) drilling single wells with multiple screened intervals and sampling them with low-flow Spectra device to avoid mixing between.		M-024 CY2024
141	140	C9999	200-ZP-1	699-45-65	CERCLA	MW10A - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2024
142	141	D0142	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
143	142	D0143	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
144	143	D0144	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
145	144	D0145	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
146	145	D0146	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
147	146	D0147	100-BC-5	TBD	CERCLA	MNA, will support the anticipated ROD		M-024 CY2024
148	147	C9976	200-UP-1	TBD	CERCLA	PMP U-3 Delineate high concentration portion of uranium plume between C9567 299-W19-123 and B2461 299-W19-36 to support optimization of uranium extraction		M-024 CY2024
149	148	D0121	200-DV-1	299-E33-362	CERCLA	Needed for monitoring at perched water 200-DV-1, TPA-CN-0879 Location PZ10		M-024 CY2024
150	149	D0122	200-DV-1	299-E33-363	CERCLA	Needed for monitoring at perched water 200-DV-1, TPA-CN-0879 Location PZ11		M-024 CY2024
151	150	D0123	200-DV-1	299-E33-364	CERCLA	Needed for monitoring at perched water 200-DV-1, TPA-CN-0879 Location PZ12		M-024 CY2024
152	151	C9992	200-ZP-1	299-W11-99	CERCLA	MW3B - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2024
153	152	C9991	200-ZP-1	699-46-61B	CERCLA	MW6B - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2024
154	153	C9923	200-ZP-1	299-W11-100	CERCLA	MW3C - ZP-1 CERCLA Monitoring Performance Monitoring Plan (DOE/RL-2009-115 Rev. 3) drilling single wells to be collocated with wells screened at different intervals.		M-024 CY2024