

1 **PART III, OPERATING UNIT GROUP 3 PERMIT CONDITIONS**
2 **LIQUID EFFLUENT RETENTION FACILITY & 200 AREA EFFLUENT TREATMENT FACILITY**

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1 **PART III, OPERATING UNIT GROUP 3 PERMIT CONDITIONS**
2 **LIQUID EFFLUENT RETENTION FACILITY & 200 AREA EFFLUENT TREATMENT FACILITY**

3 **UNIT DESCRIPTION:**

4 The Liquid Effluent Retention Facility (LERF) and 200 Area Effluent Treatment Facility(200 Area ETF)
5 consists of an aqueous waste treatment system that provides treatment, storage integral to the treatment
6 process, and storage of secondary wastes from the treatment process for a variety of aqueous mixed
7 waste. The 200 Area ETF is located in the 200 East Area. Aqueous wastes managed by the 200 Area
8 ETF include process condensate from the LERF and 200 Area ETF and other aqueous waste generated
9 from onsite remediation and waste management activities.

10 The LERF consists of three lined surface impoundments, or basins. Aqueous waste from LERF is
11 pumped to the 200 Area ETF for treatment in a series of process units, or systems, that remove or destroy
12 essentially all of the dangerous waste constituents. The treated effluent is discharged to a State-Approved
13 Land Disposal Site (SALDS) north of the 200 West Area, under the authority of a Washington State
14 Waste Discharge Permit (Ecology 2000) and 200 Area ETF Delisting ([40 CFR 261](#), Appendix IX,
15 Table 2). Construction of the LERF began in 1990. Waste management operations began at LERF in
16 April 1994. Construction of the 200 Area ETF began in 1992. Waste management operations began at
17 200 Area ETF in November of 1995.

18 This Chapter provides unit-specific Permit conditions applicable to the dangerous waste management
19 units for LERF and 200 Area ETF.

20 **LIST OF ADDENDA SPECIFIC TO OPERATING UNIT GROUP 3**

- 21 Addendum A Part A Form, dated March 31, 2015
22 Addendum B Waste Analysis Plan, dated June 30, 2015
23 Addendum C Process Information, dated December 31, 2014
24 Addendum D Groundwater Monitoring, approved April 29, 2014
25 Addendum E Security Requirements, dated, June 30, 2011
26 Addendum F Preparedness and Prevention, dated April 8, 2014
27 Addendum G Personnel Training, dated June 30, 2015
28 Addendum H Closure Plan, dated June 30, 2011
29 Addendum I Inspection Requirements, dated April 8, 2014
30 Addendum J Contingency Plan, dated June 30, 2015

31 **DEFINITIONS**

32 **State and federal delisting actions:** The state delisting action pursuant to [WAC 173-303-910\(3\)](#),
33 August 8, 2005, and the federal delisting action appearing in [40 CFR 261](#), Appendix IX, Table 2
34 applicable to the United States, Department of Energy, Richland, Washington.

35 **ACRONYMS**

36 LERF and 200 Area ETF 200-Area Liquids Processing Facility

37 **III.3.A COMPLIANCE WITH UNIT-SPECIFIC PERMIT CONDITIONS**

38 **III.3.A.1** The Permittees will comply with all Permit Conditions in this Chapter and its
39 Addendums and Chapters with respect to dangerous waste management and dangerous
40 waste management units in LERF and 200 Area ETF, in addition to requirements in
41 Permit Part I and Part II.

- 1 **III.3.B GENERAL WASTE MANAGEMENT**
- 2 **III.3.B.1** The Permittees are authorized to accept dangerous and/or mixed waste for treatment in
3 dangerous waste management units that satisfies the waste acceptance criteria in Permit
4 Addendum B according to the waste acceptance procedures in Permit Addendum B.
5 [\[WAC 173-303-300\]](#)
- 6 **III.3.B.2** The Permittees are authorized to manage dangerous and/or mixed wastes physically
7 present in the dangerous waste management units in LERF and 200 Area ETF as of the
8 effective date of this Permit according to the requirements of Permit Condition III.15.B.1.
- 9 **III.3.B.3** The Permittees are authorized to treat and/or store dangerous/mixed waste in the
10 dangerous waste management units in LERF and 200 Area ETF according to the
11 following requirements:
- 12 **III.3.B.3.a** The Permittees are authorized to treat, and store as necessary in support of treatment,
13 dangerous waste in the 200 Area ETF tank systems identified in Permit Addendum C,
14 Section C.2, and Section C.4 according to the Permit Conditions of this Chapter.
- 15 **III.3.B.3.b** The Permittees are authorized to store and treat those dangerous and/or mixed waste
16 identified in Permit Addendum C, Section C.3, in containers according to the
17 requirements of this Chapter. All container management activities pursuant to this Permit
18 Condition will take place within the container storage areas or within the 200 Area ETF
19 process area identified in Permit Addendum C, Figures C.3 and C.4.
- 20 **III.3.B.3.c** Treatment in containers authorized by Permit Condition III.3.B.3.b is limited to decanting
21 of free liquids, and addition of sorbents to free liquids. The Permittees will ensure that
22 sorbents are compatible with wastes and the containers. Sorbents will be compliant with
23 the requirements of [WAC 173-303-140\(4\)\(b\)\(iv\)](#), incorporated by reference.
- 24 **III.3.B.3.d** The Permittees are authorized to treat aqueous waste in LERF Basins (Basins 42, 43 and
25 44) subject to the following requirements:
- 26 **III.3.B.3.d.1** Following treatment in a LERF basin, aqueous wastes must be treated in 200 Area ETF
27 according to Permit Conditions III.3.B.3.a through c.; [\[40 CFR 268.4\(2\)\(iii\)\]](#), incorporated
28 by reference by [WAC 173-303-140](#)
- 29 **III.3.B.3.d.2** The Permittees must ensure that for each basin, either supernatant is removed on a flow-
30 through basis, to meet the requirement of [40 CFR 268.4\(a\)\(2\)\(ii\)](#) incorporated by
31 reference by [WAC 173-303-140](#), or incoming waste is shown to not contain solids by
32 either: (1) sampling results showing the waste does not contain detectable solids, or (2)
33 filtering through a 10 micron filter;[\[WAC 173-303-815\(2\)\(b\)\(ii\)\]](#)
- 34 **III.3.B.4** The Permittees will maintain the physical structure of the LERF and 200 Area ETF as
35 documented in the applicable sections of Permit Addendum C, Section C.2.
36 [\[WAC 173-303-630\(7\)](#), [WAC 173-303-640\(3\)](#), [WAC 173-303-640\(4\)\]](#)
- 37 **III.3.B.5** The Permittees are authorized to use treated effluent for recycle/makeup water purposes
38 at the 200 Area ETF as outlined in Permit Addendum C, Section C.2.5.5, and the letters
39 dated August 19, 2005, EPA Region 10 to Keith A. Klein; and August 8, 2005,
40 Department of Ecology to Keith A. Klein. [\[WAC 173-303-815 \(2\)\(b\)\(ii\)\]](#)
- 41 **III.3.B.6** The Permittees will maintain and operate systems for the 200 Area ETF documented in
42 Permit Addendum C, Section C.2.5 as necessary for proper operation of the 200 Area
43 ETF, compliance with the conditions of this Permit, and protection of human health and
44 the environment. For purposes of this Permit Condition, the Monitor and Control System
45 documented in Permit Addendum C, Section C.2.5.1, is considered to include all

- 1 indicators, sensors, transducers, actuators and other control devices connected to but
2 remote from the centralized monitor and control system (MCS) computer.
- 3 **III.3.B.7** The Permittees must complete the following requirements prior to acceptance for
4 treatment in 200 Area ETF aqueous waste streams with listed waste numbers subject to
5 the requirements of the State and Federal delisting: [[WAC 173-303-815\(2\)\(b\)\(ii\)](#)]
- 6 **III.3.B.7.a** The Permittees will prepare a written waste processing strategy according to the
7 requirements of the State and Federal Delisting Actions Conditions (1)(a)(ii) and (1)(b),
8 incorporated by reference, and Permit Addendum B, Section B.2.2.2.
- 9 **III.3.B.7.b** The waste processing strategy required by Permit Condition III.3.B.7.a, must document
10 the proposed processing configuration for the 200 Area ETF, operating conditions for
11 each processing unit, and the expected treated effluent characteristics based on the
12 process model and treatability envelope data required by State and Federal Delisting
13 Conditions (1)(a)(ii) and (1)(b).
- 14 **III.3.B.7.c** The written waste processing strategy required by Permit Condition III.3.B.7.a must
15 demonstrate that the projected treated effluent characteristics satisfy the delisting
16 exclusion limits in State and Federal Delisting Condition (5) of the state and federal
17 delisting actions, and the discharge limits of the [State Discharge Permit ST-4500](#).
- 18 **III.3.B.7.d** The Permittees will place a copy of the written waste processing strategy required by
19 Permit Condition III.3.B.7.a in the Hanford Facility Operating Record, LERF and
20 200 Area ETF file as part of the documentation of waste streams accepted for
21 management at the 200 Area ETF.
- 22 **III.3.B.8** Treatment of aqueous waste streams in the 200 Area ETF with listed waste numbers that
23 are subject to the requirements of the state and federal delisting actions must comply with
24 the requirements of State and Federal Delisting Condition (1)(c), incorporated by
25 reference. [[WAC 173-303-815 \(2\)\(b\)\(ii\)](#)]
- 26 **III.3.B.9** The Permittees will manage treated effluent in the final verification tanks according to
27 the requirements of the State and Federal Delisting Conditions (3) and (5), incorporated
28 by reference. [[WAC 173-303-815 \(2\)\(b\)\(ii\)](#)]
- 29 **III.3.B.10** The Permittees will manage treated effluent from the 200 Area ETF according to the
30 requirements of the [State Waste Discharge Permit ST 4500](#) and State and Federal
31 Delisting Condition (7). [[WAC 173-303-815\(2\)\(b\)\(ii\)](#)]
- 32 **III.3.B.11** The Permittees will ensure compliance with treatment standards ([40 CFR 268](#),
33 incorporated by reference by [WAC 173-303-140](#)) applicable to treated effluent prior to
34 discharge to the State Authorized Land Disposal Site (SALDS), the delisting criteria at
35 [40 CFR 261, Appendix IX](#), Table 2, and the corresponding state-approved delisting
36 (dated August 8, 2005, all incorporated by reference). Sampling and analysis necessary
37 for these demonstrations must meet the corresponding requirements in Permit
38 Addendum B. [[WAC 173-303-140](#), [WAC 173-303-815 \(2\)\(b\)\(ii\)](#)]
- 39 **III.3.C WASTE ANALYSIS**
- 40 **III.3.C.1** The Permittees will comply with requirements in Permit Addendum B for sampling and
41 analysis of all dangerous and/or mixed waste required by conditions in this Chapter.
42 [[WAC 173-303-300](#)]

- 1 **III.3.C.2** The Permittees will have an accurate and complete waste profile as described in Permit
2 Addendum B, Section B.2.1.2, for every waste stream accepted for management in LERF
3 and 200 Area ETF dangerous waste management units. [[WAC 173-303-380](#) (1)(a), (b)]
- 4 **III.3.C.3** The Permittees will place a copy of each waste profile required by Permit
5 Condition III.15.C.2 in the Hanford Facility Operating Record, LERF and 200 Area ETF
6 file required by Permit Condition II.I.1.j. [[WAC 173-303-380](#) (1)(a), (b)]
- 7 **III.3.C.4** The Permittees will make a copy of the waste profile required by Permit
8 Condition III.15.C.2 available upon request. [[WAC 173-303-380](#) (1)(a), (b)]
- 9 **III.3.C.5** Records and results of waste analysis described in this Permit will be maintained in the
10 Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit
11 Condition II.I.1.b. [[WAC 173-303-380](#) (1)(a), (b)]
- 12 **III.3.D RECORDKEEPING AND REPORTING**
- 13 **III.3.D.1** The Permittees will place the following into the Hanford Facility Operating Record,
14 LERF and 200 Area ETF file required by Permit Condition II.I.1:
- 15 **III.3.D.1.a** Records required by [WAC 173-303-380](#) (1)(k), and -(o) incorporated by reference.
- 16 **III.3.D.1.b** Records and results of waste analysis, waste determinations (as required by [Subpart CC](#))
17 and trial tests required by [WAC 173-303-300](#), General waste analysis, and by
18 [40 CFR §264.1034, §264.1063, §264.1083, §265.1034, §265.1063, §265.1084, §268.4\(a\),](#)
19 and [§268.7](#); [[WAC 173-303-310](#)(2)]
- 20 **III.3.D.1.c** An inspection log, summarizing inspections conducted pursuant to Permit
21 Condition III.3.H.1; [[WAC 173-303-380](#)(1)(e)]
- 22 **III.3.D.1.d** Records required by the State and Federal Delisting Condition (6), incorporated by
23 reference; [[WAC 173-303-815](#) (2)(b)(ii)]
- 24 **III.3.E SECURITY**
- 25 **III.3.E.1** The Permittees comply with the Security requirements specific to the LERF and 200
26 Area ETF in Addendum E and Permit Attachment 3 as required by Permit
27 Condition II.M. [[WAC 173-303-310](#)(2)]
- 28 **III.3.F PREPAREDNESS AND PREVENTION**
- 29 **III.3.F.1** The Permittees will comply with the Preparedness and Prevention requirements specific
30 to LERF and 200 Area ETF in Addendum F. [[WAC 173-303-340](#)]
- 31 **III.3.G CONTINGENCY PLAN**
- 32 **III.3.G.1** The Permittees will comply with Addendum J, Contingency Plan, in addition to the
33 requirements of Permit Condition II.A when applicable. [[WAC 173-303-350](#)]
- 34 **III.3.H INSPECTIONS**
- 35 **III.3.H.1** The Permittees will comply with Addendum I in addition to the requirements of Permit
36 Condition II.X. [[WAC 173-303-320](#)]
- 37 **III.3.I TRAINING PLAN**
- 38 **III.3.I.1** The Permittees will include the training requirements described in Addendum G of this
39 Chapter specific to the dangerous waste management units and waste management
40 activities at LERF and 200 Area ETF into the written training plan required by Permit
41 Condition II.C.

- 1 **III.3.J GENERAL REQUIREMENTS**
- 2 **III.3.J.1** The Permittees will comply with the requirements of [WAC 173-303-395](#)(1), incorporated
3 by reference, for prevention of reaction of ignitable, reactive, or incompatible wastes.
- 4 **III.3.K CLOSURE**
- 5 **III.3.K.1** The Permittees will close dangerous waste management units in the LERF and 200 Area
6 ETF in accordance with Addendum H, Closure Plan, and Permit Condition II.J.
7 [\[WAC 173-303-610](#)(3)(a)]
- 8 **III.3.L POST CLOSURE – RESERVED**
- 9 **III.3.M CRITICAL SYSTEMS – RESERVED**
- 10 **III.3.N RESERVED**
- 11 **III.3.O CONTAINERS**
- 12 **III.3.O.1** Container Storage and Treatment Unit Standards
- 13 **III.3.O.1.a** As part of or in addition to the requirements of Permit Condition III.3.B.2, the Permittees
14 will ensure the integrity of container storage secondary containment and the chemically
15 resistant coating described in Addendum C, Section C.3.4.1 as necessary to ensure any
16 spills or releases to secondary containment do not migrate to the underlying concrete or
17 soils.
- 18 **III.3.O.1.a.1** Include documentation of any damage and subsequent repairs in the Hanford Facility
19 Operating Record, LERF and 200 Area ETF file required by Permit Condition II.1.1.
- 20 **III.3.O.2** Container Management Standards
- 21 **III.3.O.2.a** The Permittees will maintain and manage wastes in accordance with the requirements of
22 Addendum C, Section 4.3.2, and Section 4.3.2. [\[WAC 173-303-630](#)(2)]
- 23 **III.3.O.2.b** The Permittees will label containers in accordance with the requirements of
24 Addendum C, Section C.3.2, and Section C.3.3. [\[WAC 173-303-630](#)(3)]
- 25 **III.3.O.2.c** The Permittees will comply with the requirements for managing wastes in containers in
26 [WAC 173-303-630](#)(5), incorporated by reference.
- 27 **III.3.O.2.d** The Permittees will ensure wastes are compatible with containers and with other wastes
28 stored or treated in containers within the 200 Area ETF according to the requirements of
29 Addendum C, Section C.3.4.3. [\[WAC 173-303-630](#)(4), [WAC 173-303-630](#)(9)]
- 30 **III.3.O.2.e** The Permittees may treat wastes in containers via decanting of free liquids and addition
31 of sorbents. The Permittees may not use addition of sorbents for purposes of changing
32 the treatability group of a waste with respect to the land disposal restriction standards of
33 [40 CFR 268](#), incorporated by reference by [WAC 173-303-140](#).
- 34 **III.3.O.2.f** The Permittees will remove any accumulated liquids from container storage areas in
35 200 Area ETF according to the requirements of Addendum C, Section C.3.4.2, to ensure
36 containers are not in contact with free liquids and to prevent overflow of the container
37 storage area secondary containment.
- 38 **III.3.O.2.g** The Permittees will comply with the requirements for air emissions from containers in
39 Addendum C, Section C.6.3.2. [\[WAC 173-303-692\]](#)

- 1 **III.3.P TANK SYSTEMS**
- 2 **III.3.P.1** Tank System Requirements
- 3 **III.3.P.1.a** The Permittees will develop a schedule for conducting integrity assessments (IA). The
4 schedule will meet the requirements of Addendum C, Section C.4.2, and consideration of
5 the factors in [WAC 173-303-640\(2\)\(e\)](#) or [WAC 173-303-640\(3\)\(b\)](#) as applicable:
- 6 **III.3.P.1.b** The Permittees will maintain a copy of the schedule required by Permit
7 Condition III.3.P.1.a, in the Hanford Facility Operating Record, LERF and 200 Area ETF
8 file, and conduct periodic integrity assessments according to the schedule. The
9 Permittees will document results of integrity assessments conducted according to the IA
10 in the Hanford Facility Operating Record, LERF and 200 Area ETF file.
- 11 **III.3.P.1.c** For existing tank systems, if a tank system is found to be leaking, or is unfit for use, the
12 Permittees must follow the requirements of [WAC 173-303-640\(7\)](#), incorporated by
13 reference. [[WAC 173-303-640\(3\)\(b\)](#)]
- 14 **III.3.P.2** Tank System Operating Requirements
- 15 **III.3.P.2.a** The Permittees will comply with the requirements of [WAC 173-303-640\(5\)\(a\)](#),
16 incorporated by reference.
- 17 **III.3.P.2.b** The Permittees will comply with the requirements of Addendum C, Section C.4.5.2.
18 [[WAC 173-303-640\(5\)\(b\)](#)]
- 19 **III.3.P.2.c** The Permittees will comply with the requirements of Addendum C, Section C.4.6.
20 [[WAC 173-303-640\(5\)\(d\)](#)]
- 21 **III.3.P.2.d** The Permittees will comply with the requirements of [WAC 173-303-640\(7\)](#), incorporated
22 by reference, in response to spills or leaks from tanks systems at 200 Area ETF.
23 [[WAC 173-303-640\(5\)\(c\)](#)]
- 24 **III.3.P.2.e** The Permittees will ensure that the Waste Processing Strategy required by Permit
25 Condition III.3.B.7.a, provides for the immediate treatment or blending of waste accepted
26 for management at the 200 Area ETF such that the resulting waste or mixture is no longer
27 reactive or ignitable when further managed in 200 Area ETF tank systems.
28 [[WAC 173-303-640\(9\)](#)]
- 29 **III.3.P.2.f** The Permittees will comply with the requirements of [WAC 173-303-640\(10\)](#),
30 incorporated by reference.
- 31 **III.3.Q SURFACE IMPOUNDMENTS**
- 32 **III.3.Q.1** The Permittees will maintain the three LERF basins according to the requirements of
33 [WAC 173-303-650 \(2\)\(f\)](#), incorporated by reference.
- 34 **III.3.Q.2** The Permittees will operate the LERF basins according to the requirements of
35 Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping.
36 [[WAC 173-303-650 \(2\)\(c\)](#)]
- 37 **III.3.Q.3** The Permittees will develop and maintain, and operate the LERF basins to ensure that
38 any flow of waste into the impoundment can be immediately shut off in the event of
39 overtopping or liner failure. [[WAC 173-303-650 \(2\)\(d\)](#)]
- 40 **III.3.Q.4** The Permittees will comply with the requirements of [WAC 173-303-650 \(2\)\(g\)](#),
41 incorporated by reference.
- 42 **III.3.Q.5** The Permittees will comply with the requirements of [WAC 173-303-650 \(4\)\(b\)](#),
43 incorporated by reference.

- 1 **III.3.Q.6** The Permittees will comply with the requirements of [WAC 173-303-650](#) (4)(c),
2 incorporated by reference. The certification required by this Permit Condition must be
3 provided to Ecology no later than seven calendar days after the date of the certification.
4 A copy of the certification will be placed in the Hanford Facility Operating Record,
5 LERF and 200 Area ETF file required by Permit Condition II.I.1. [[WAC 173-303-650](#)
6 (4)(c)]
- 7 **III.3.Q.7** The Permittees will comply with the requirements of [WAC 173-303-650](#)(5)(b),
8 incorporated by reference, in response to events in [WAC 173-303-650](#)(5)(a), incorporated
9 by reference.
- 10 **III.3.Q.8** The Permittees will comply with the requirements of [WAC 173-303-650](#)(5)(d) for any
11 LERF basin that has been removed from service in accordance with Permit
12 Condition III.3.Q.7 that the Permittees will restore to service. [[WAC 173-303-650](#)(5)(d)]
- 13 **III.3.Q.9** The Permittees will close any LERF basin removed from service in accordance with the
14 requirements of Permit Condition III.3.Q.7 or a basin that cannot be repaired or that the
15 Permittees will not to return to service. [[WAC 173-303-650](#)(5)(e)]
- 16 **III.3.Q.10** The Permittees will comply with the requirements of Addendum C, Section C.5.10 with
17 respect to management of ignitable or reactive wastes in the LERF basins.
18 [[WAC 173-303-650](#)(7)]
- 19 **III.3.Q.11** The Permittees can place incompatible wastes and materials in the same LERF basin only
20 if in compliance with the requirements of [WAC 173-303-395](#)(1)(b), (c).
21 [[WAC 173-303-650](#)(8)]
- 22 **III.3.Q.12** The Permittees will use the action leakage rate in Addendum C, Section C.5.8, for
23 operation of LERF basins, and comply with the requirements of
24 [WAC 173-303-650](#)(10)(b). [[WAC 173-303-650](#)(10)]
- 25 **III.3.Q.13** The Permittees will comply with the requirements of [WAC 173-303-650](#)(11),
26 incorporated by reference.
- 27 **III.3.Q.14** The Permittees will comply with the requirements of [40 CFR 264, Subpart CC](#),
28 incorporated by reference by [WAC 173-303-692](#).
- 29 **III.3.R** **GROUNDWATER**
- 30 **III.3.R.1** The Permittees will comply with the requirements of Addendum D, Groundwater
31 Monitoring Plan. [[WAC 173-303-645](#)]
- 32 **III.3.R.2** All wells constructed pursuant to this Permit will be constructed in compliance with
33 Chapter 173-160 WAC incorporated by reference through [WAC 173-303-645](#) (8)(c).
- 34 **III.3.R.3** Update the Groundwater Monitoring Network
- 35 **III.3.R.3.a** The Permittees will install an additional downgradient monitoring well E-26-15 as
36 identified in Addendum D, Groundwater Monitoring Plan by December, 2016.
- 37 **III.3.R.3.b** Within 60-days of the well installation, the Permittees will submit a Class 2 Permit
38 modification [[WAC 173-303-830](#) Appendix I, C.1.a] to update Addendum D and include
39 the additional monitoring well into the groundwater monitoring network.
- 40 **III.3.R.3.c** Concurrently with the permit modification request, the Permittees will submit a revised
41 “Liquid Effluent Retention Facility Characterization Report” for the additional
42 monitoring well that includes:
- 43 1) Well construction in accordance with [WAC 173-303-645](#)(8)(c)

- 1 2) Well screen placement in the upper aquifer in accordance with [WAC 173-303-](#)
- 2 [645\(8\)\(a\)](#)
- 3 3) Hydrogeologic conditions, stratigraphy and hydraulic conductivity, derived from
- 4 geologist observations of borehole archive samples, down hole gamma logging,
- 5 and aquifer slug tests in accordance with [WAC 173-303-645\(8\)\(a\)\(i\)\(A\)](#)
- 6 4) Drilling and sampling details in accordance with [WAC 173-303-645\(8\)\(d\)](#)
- 7 5) Borehole corrections (e.g., precision surveys, gyroscopic corrections, and
- 8 barometric response corrections) to ensure adequate hydraulic understanding
- 9 considering the very small gradient in accordance with [WAC 173-303-645\(8\)\(f\)](#)
- 10 6) Geochemical comparison of the water quality with other existing wells to ensure
- 11 anticipated representative conditions in accordance with [WAC 173-303-](#)
- 12 [645\(8\)\(a\)\(ii\)](#)
- 13 7) Document surface location as required by [WAC 173-303-645\(6\)](#)
- 14 **III.3.R.3.c.1** Groundwater sample results from the new well (E-26-15) and the existing wells for all
- 15 constituents in the Addendum D, Groundwater Monitoring Plan for the Liquid Effluent
- 16 Retention Facility,
- 17 **III.3.R.3.c.2** Results of evaluating final well development data and drilling logs,
- 18 **III.3.R.3.c.2.a** A well use designation (e.g., upgradient or downgradient).