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INTERIM CHANGE NOTICE (ICN)

A. Document No.: PNNL-14070 **Revision No.:** 1 **Document Title:** *Groundwater Monitoring Plan for the 216-S-10 Pond and Ditch* **Document's Original Author:** BA. Williams and CJ Chou	**Implementation Date of ICN:** 11 / 1 / 06 **Change Requested By:** BA Williams

B. Action:
This ICN updates the groundwater monitoring parameter table and incorporates all new monitoring wells in the current network for the 216-S-10 Pond and Ditch.

C. Effect of Change:
This ICN updates the groundwater monitoring plan. The list of constituents and the frequency of sampling is updated to reflect current needs and updates the list of wells within the network.

D. Reason for Change/Description of Change:

Reason for Change:
These changes update the groundwater monitoring plan list of constituents to be analyzed. They also update the list of wells that are currently part of the network and new wells to be added to the network. Because new wells have been planned under the M-24-57 TPA milestone, there are no longer plans to deepen existing boreholes. These changes also incorporate changes approved in the Post-Closure RCRA Groundwater Monitoring Plan for the 216-S-10 Pond and Ditch, PNNL-15731.

Description of Change:
Section 6.3: Delete the first paragraph and replace with, "This section provides the revised sampling and analysis plan for the S-10 facility. A revised and reduced groundwater monitoring network is in place and currently, includes only two downgradient wells, 299-W26-13 and 299-W26-14. One deep RCRA well, 299-W27-2, which monitors groundwater conditions at the base of the uppermost unconfined aquifer, is sampled for auxiliary information. The upgradient well 299-W26-7 is dry.

As defined in the *Post-Closure RCRA Groundwater Monitoring Plan for 216-S-10 Pond and Ditch* (PNNL- 15731) three additional wells (one upgradient, two downgradient) are currently planned (Figure1). These wells are prioritized under the Tri-Party Agreement milestone M-24-57 well drilling activities for installation in CY 2008".

Page 6.2: Replace Figure 6.1 with the new figure on attached to this ICN.

Page 6.3: Section 6.3.1, Delete first sentence of paragraph after bullets and replace with, "Figure 6.1 provides the location of the current and proposed RCRA groundwater monitoring wells for the network.

Page 6.3: Replace Table 6.1 with the table attached to this ICN.

Page 6.4: Except for the last paragraph on the page (i.e., start of section 6.3.2), strike through the entire page.
Page 6.5: In last paragraph, strike through "6.4" in first and second sentences and replace with "6.1."

Page 6.8: Strike through Table 6.4.

E. Document Management Decisions:
The original document was approved by SP Luttrell and MJ Hartman, who will also approve this ICN

This ICN will be distributed to those people on the attached distribution list as it may vary from the original list.

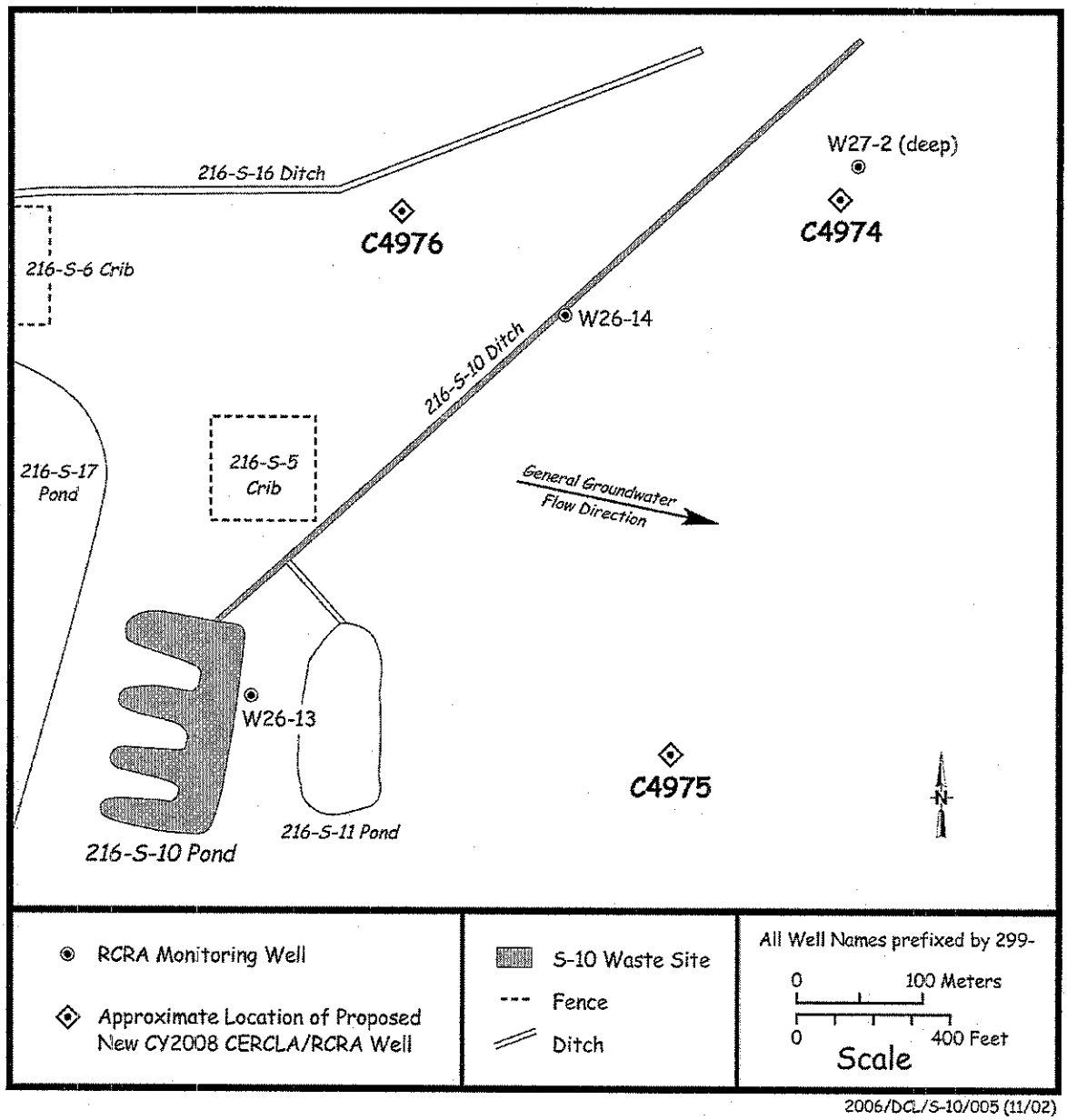
F. Groundwater Monitoring Task Manager Approval Signature
(Please Sign and Date)

SP Luttrell 11/07/06

Project Quality Engineer Approval: TG Walker Thomas G Walker **Date:** 11/7/06

Author Approval: **Date:** 11/6/06

Other Approvals: MJ Hartman Mary J Hartman **Date:** 11/6/06



2006/DCL/S-10/005 (11/02)

Figure 6.1. Well Location Map at the 216-S-10 Pond and Ditch

Table 6.1. Revised Monitoring Wells for the 216-S-10 Pond and Ditch

Well ID	Well Name	Purpose	WAC Compliant	Indicator Parameters				Site-Specific Parameters				Supporting Constituents						
				pH[a]	Specific Conductance[a]	Total Organic Carbon	Total Organic Halides	Hexavalent Chromium	Vanadium[b]	Phenols	Chloroform	Alkalinity	Anions[c]	Metals, Filtered[b]	Temperature[a]	Turbidity[a]	Water Level[a]	Carbon Tetrachloride
B8817	299-W26-13	Downgradient	C	S4	S4	S4	S4	S	A	A	A	A	A	A	S	S	S	A
B8828	299-W26-14	Downgradient	C	S4	S4	S4	S4	S	A	A	A	A	A	A	S	S	S	A
C4974	Planned well	Downgradient	C	S4	S4	S4	S4	S	A	A	A	A	A	A	S	S	S	A
C4975	Planned well	Downgradient	C	S4	S4	S4	S4	S	A	A	A	A	A	A	S	S	S	A
C4976	Planned well	Upgradient	C	S4	S4	S4	S4	S	A	A	A	A	A	A	S	S	S	A
A5410	299-W27-2	Base of unconfined aquifer; information only	C	S	S	S	S	S	A	A	A	A	A	A	S	S	S	A

Footnotes

(a) Field measurement.
(b) Metals – Analytes include but not limited to calcium, iron, potassium, magnesium, manganese, sodium, and vanadium.
(c) Anions – Analytes include but not limited to chloride, nitrate, and sulfate.

Abbreviations

A = To be sampled annually.
C = Well is constructed as a WAC 173-160 resource protection well.
S = To be sampled semiannually.
S4 = To be sampled semiannually in quadruplicate.

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