



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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March 30, 2009

Karen Streeter
Clark County Public Works
P.O. Box 9810
Vancouver, WA 98660

RE: Updated 401 Certification – Incorrect Corps Permit #

Dear Ms. Streeter:

Enclosed is an updated copy of the 401 Certification, Order # 6521. Please replace the copy dated March 20, 2009 because it contains the incorrect Corps permit # NWS-2008-1372-SOD. We have been informed by the Corps of Engineers that the 2008 number is associated with the jurisdictional determination for the ditches on this project. If you have any questions, please give me call.

Sincerely,

A handwritten signature in cursive script that reads "Lori Ochoa".

Lori Ochoa
Federal Project Coordinator
Ecology Southwest Region

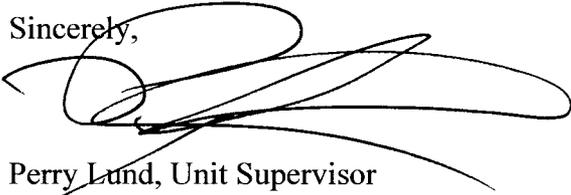
e-cc: Sandi Manning, Corps of Engineers
Mark Cline, Ecology
Loree Randall, Ecology
ecyrefedpermit@ecy.wa.gov



Department of Transportation
NW Ward Rd /172nd ave Transportation Project
401 Certification w/order# 6521
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If you have any questions, please contact Lori Ochoa, Federal Project Coordinator, at 360-407-6926 or by e-mail at loch461@ecy.wa.gov. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,

A handwritten signature in black ink, appearing to read 'Perry Lund', with a large, sweeping flourish extending to the right.

Perry Lund, Unit Supervisor
Shorelands and Environmental Assistance Program
Southwest Regional Office
Department of Ecology

PL:lo
Enclosure

e-cc: Sandra Manning, Corps of Engineers
Mark Cline, Ecology
Loree' Randall, Ecology
ecyrefedpermit@ecy.wa.gov

IN THE MATTER OF GRANTING A) ORDER # 6521
WATER QUALITY) Corps Reference No. NWS-2001-622-SOD
CERTIFICATION TO) Widen NE Ward Road and realign the
 Clark County Public Works Department) intersection of NE 172nd Avenue and NE Ward
 in accordance with 33 U.S.C. 1341) Road located in Clark County, Washington.
 (FWPCA § 401), RCW 90.48.120, RCW)
 90.48.260 and Chapter 173-201A WAC)
)
)

TO: Karen Streeter
 Clark County Public Works
 P.O. Box 9810
 Vancouver, WA 98660

On September 12, 2008, Ecology received a Joint Aquatic Resources Permit Application (JARPA) from the Clark County Public Works Department requesting a 401 Water Quality Certification (WQC). The U.S. Army Corps of Engineers (Corps) issued a public notice for the project on September 18, 2008.

The proposed project entails widening sections of NE Ward Road and realigning the intersection of NE 172nd Avenue and NE Ward Road. The intersection realignment will also require the easternmost portion of NE 99th Street to be widened where it intersects with NE 172 Ave. Other work being proposed is the construction of two stormwater facilities, replacing the existing two span bridge over China Ditch with two new single span bridges, adding left turn lanes, sidewalks and adding a new traffic signal at the intersection of NE Ward Road and NE 172nd Avenue.

The project is located in Clark County, Washington in WRIA 28 (Salmon/Washougal) at the following Section, Township, and Range:

<u>Section:</u>	<u>Township</u>	<u>Range</u>
1	2N	2E
6	2N	3E
31	3N	3E
36	3N	2E

AUTHORITIES:

In exercising authority under 33 U.S.C. § 1341, RCW 90.48.120, and RCW 90.48.260, Ecology has reviewed this application pursuant to the following:

1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §§1311, 1312, 1313, 1316, and 1317 (FWPCA §§ 301, 303, 306 and 307);

2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. §1313 and by Chapter 90.48 RCW, and with other applicable state laws; and
3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.

WATER QUALITY CERTIFICATION CONDITIONS:

Through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned will be conducted in a manner that will not violate applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. §1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order.

Certification of this proposal does not authorize the Applicant to exceed applicable state water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification shall absolve the Clark County Public Works Department from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments occurring as a result of project construction or operations.

A. General Conditions:

1. For purposes of this Order, the term "Applicant" shall mean the Clark County Public Works Department and its agents, assignees and contractors.
2. For purposes of this Order, all submittals required as conditions shall be sent to Ecology's Southwest Regional Office, Attn: Federal Project Coordinator, SEA Program P.O. Box 47775, Olympia WA 98504-7775 or via e-mail (preferred), if possible, to the Coordinator assigned to this project. Notifications shall be made via phone or e-mail (preferred). All submittals and notifications shall be identified with Order No. 6521 and include the Applicant's name, project name, project location, the project contact and the contact's phone number.
3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on September 12, 2008. The Applicant will be out of compliance with this Order and must reapply with an updated application if the information contained in the JARPA is voided by subsequent changes to the project not authorized by this Order.

4. Within 30 days of receipt of an updated JARPA Ecology will determine if the revised project requires a new water quality certification and public notice or if a modification to this Order is required.
5. This Order shall be rescinded if the U.S. Corps of Engineers does not issue a individual Section 404 permit.
6. Copies of this Order shall be kept on the job site and readily available for reference by Ecology personnel, the construction superintendent, construction managers, lead workers, and state and local government inspectors.
7. The Applicant shall provide access to the project site and all mitigation sites upon request by Ecology personnel for site inspections, monitoring, necessary data collection, and/or to ensure that conditions of this Order are being met.
8. Nothing in this Order waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Further, Ecology retains continuing jurisdiction to make modifications hereto through a supplemental order, if additional impacts due to project construction or operation are identified (*e.g.*, violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.
9. The Applicant shall ensure that all project engineers, contractors, and other workers at the project site with authority to direct work have read and understand relevant conditions of this Order and all permits, approvals, and documents referenced in this Order. The Applicant shall provide Ecology a signed statement (see Attachment A for an example) from each signatory that s/he has read and understands the conditions of this Order and the above-referenced permits, plans, documents and approvals. These statements shall be provided to Ecology before construction begins.
10. This Order does not authorize direct, indirect, permanent, or temporary impacts to waters of the state or related aquatic resources, except as specifically provided for in conditions of this Order.
11. Failure of any person or entity to comply with the Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.

B. No Further Impairment of Existing Water Quality:

This order does not authorize temporary exceedances of water quality standards beyond the limits established in WAC 173-201A-200(1)(e)(i).

C. Timing:

This Order is valid until all compliance requirements in this document have been met.

D. Notification Requirements:

The Applicant shall provide written notification (Fax, e-mail or mail) to Ecology's Southwest Regional Office Federal Project Coordinator in accordance with condition A.2 above for the following activities:

- a. At least ten (10) days prior to the pre-construction meeting;
- b. At least ten (10) days prior to the onset of any work on site;
- c. At least ten (10) days prior to the onset of in-water work, including wetlands;
- d. Immediately following a violation of the state water quality standards or any condition of this Order;
- e. Within fourteen (14) days after completion of construction.

E. Construction, Equipment Maintenance and Staging

Construction:

1. During construction, the applicant shall comply with all stormwater requirements within the current NPDES Construction Stormwater General Permit issued for this project.
2. Within the project limits¹, all environmentally sensitive areas including, but not limited to, wetlands, wetland buffers, and mitigation areas shall be fenced with high visibility construction fence (HVF) prior to commencing construction activities. Construction activities include equipment staging, materials storage, and worker-vehicle parking. *
**Note: This condition does not apply to activities such as pre-construction surveying and installing HVF and construction zone signage*
3. If the project will be constructed in stages² a detailed description and drawings of the stages shall be sent to Ecology for review at least 20 days prior to placing HVF. Condition E 2 shall apply to each stage.
4. All field staff shall be trained to: recognize HVF; understand its purpose; and properly install it in the appropriate locations.
HVF shall be maintained until all work is completed for each project or each stage of a staged project.
5. All clearing limits, stockpile sites, staging areas, and trees to be preserved shall clearly be marked prior to commencing construction activities and maintained until all work is completed for each project.

¹ Project limits include mitigation sites, staging areas, borrow sources, and other sites developed or used to support project construction.

² Stages

6. No equipment shall enter, operate, be stored or parked within any sensitive area except as specifically provided for in this Order.
7. All construction debris, excess sediment, and other solid waste material shall be properly managed and disposed of in an upland disposal site approved by the appropriate regulatory authority.
8. No petroleum products, fresh concrete, lime or concrete, chemicals, or other toxic or deleterious materials shall be allowed to enter waters of the state.
9. All forms used for concrete shall be completely sealed and all concrete shall be completely cured prior to coming into contact with waters of the state.
10. Any contact water discharged from a confined area with curing concrete shall be discharged to upland areas to be treated and infiltrated, or disposed of appropriately with no possible entry to waters of the state, including wetlands.
11. Turbid de-watering water associated with in-water work shall not be discharged directly to waters of the state. Turbid de-watering water shall be routed to an upland area (includes baker tanks) on-site settling or off-site settling.
12. Clean de-watering water associated with in-water work that has been tested and confirmed to meet water quality standards may be discharged directly to waters of the state including wetlands. The discharge outfall method shall be designed and operated so as not to cause erosion or scour in the stream channel, banks, or vegetation.

Bridge Work:

13. If saw-cutting of concrete is needed for demolition of on-site structures, containment methods are required to control and contain all saw-cut water and debris. The saw-cut water shall be disposed of upland with no possibility of entering waters of the state, including wetlands.
14. All demolition debris shall be properly managed and disposed of to prevent any discharge into waters of the state including wetlands. Incidental debris shall be removed from the water.
15. All materials used during work area isolation activities (e.g. temporary bypass) shall be removed when that activity is complete and disposed of in an approved upland disposal site.
16. Riprap shall be clean and durable, free from dirt, sand, clay, and rock fines.

17. Prior to re-introducing flow to the de-watered work area, all bank protection shall be completed.

Equipment Maintenance and Staging:

18. Staging areas will be located a minimum of 50 feet and , where practical, 200 feet, from waters of the state, including wetlands. If a staging area must be located within 50 feet of a water of the state, then the Applicant shall provide a written explanation and obtain approval from Ecology's Federal Permit Coordinator before placement of the staging area in the set back area.
19. Equipment used for this project shall be free of external petroleum-based products while used around the waters of the state, including wetlands. Accumulated soils or debris shall be removed from the drive mechanisms (wheels, tires, tracks, etc.) and the undercarriage of the equipment prior to its use around waters of the state, including wetlands.
20. Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc. shall be checked regularly for drips or leaks and shall be maintained and stored properly to prevent spills into waters of the state.
21. Wash water containing oils, grease, or hazardous materials resulting from washing down equipment or working areas shall be not be discharged into state waters. The applicant shall set up a designated area for washing down equipment.
22. No cleaning solvents or chemicals used for tool or equipment cleaning may be discharged to the ground or to waters of the state.
23. A separate area having no possibility of draining to surface waters shall be set aside for washing concrete delivery trucks, pumping equipment, and tools.

F. Wetland Mitigation

1. . The Applicant shall mitigate wetland impacts as described in *Wetland & Riparian Habitat Mitigation Plan, NE Ward Road/172nd Avenue Project CRP350422, Amendment 1.1* (hereafter called the "mitigation plan") prepared by Clark County Department of Public Works, dated January 2009.
2. The Applicant shall submit any changes to the mitigation plan in writing to Ecology (see A.2) for review and approval before work begins or when problems occur during construction requiring plan changes.
3. To ensure proper installation, the Applicant's wetland professional must supervise and inspect all mitigation site construction and planting.

Implementation:

4. The Applicant shall ensure that all excess excavated material from the road abandonment is disposed of in an appropriate location outside of wetlands and their buffers and above the 100-year floodplain.
5. The Applicant shall ensure that no material is stockpiled within existing wetlands, streams or their buffers at the mitigation site at any time, unless included in the Ecology-approved mitigation plan.
6. The Applicant shall not use polyacrylamide as a temporary erosion control BMP on exposed or disturbed soil at the mitigation site.
7. If seeding is used as a temporary erosion control BMP, it must be a wetland mix consisting of native, annual, non-invasive plant species.
8. The Applicant shall place signs at the mitigation area's boundaries, including buffers, every 100 feet that mark the area as wetland mitigation.
9. Upon completion of site-grading and prior to planting, the Applicant shall submit to Ecology written confirmation that the finished grades are consistent with the approved mitigation plan or subsequent Ecology-approved plan changes. Written confirmation can be a signed letter from the surveyor or project engineer indicating how final elevations were confirmed and whether they are consistent with the plan.
10. Within 90 days of completing construction and planting at the site (for each phase if applicable), the Applicant shall submit a final as-built report with maps to Ecology. The as-built report must:
 - a) Document site conditions at Year Zero;
 - b) Be submitted to Ecology per Condition A.2. and as an electronic file and one hard copy;
 - c) Include the information listed in Attachment B;
 - d) Include documentation of the recorded legal mechanism required in condition F.12.
11. If the mitigation project is not completed within 13 months of this Order's date, the Applicant shall submit a written notification discussing the status of the development and mitigation projects and submit an updated written notification every 12 months until construction and planting are complete and the final as-built report is submitted.
12. Within 90 days of completing the mitigation project, the Applicant shall record a conservation easement for the preserved area, a copy of Ecology's Order, and the site map from the final wetland mitigation plan or as-built indicating the location of wetlands and

their buffers. These documents must be recorded with the County Recording Office, Registrar of Deeds, or other official responsible for maintaining records for, or interest in, real property

Monitoring and Maintenance:

13. The Applicant shall water and maintain all plantings at the mitigation site to meet the mitigation plan's performance standards.
14. The Applicant shall monitor the mitigation site for a minimum of 10 years. The Applicant shall use the monitoring methods described on page(s) 26 and 27 of the mitigation plan.
15. The Applicant shall submit monitoring reports (one as an electronic file and one hard copy [see A.2]) to Ecology documenting conditions at the mitigation site for years 1, 2, 3, 5, 7, and 10. The reports must contain, at a minimum, the information in Attachment D. The Applicant shall submit the first monitoring report 12 months after completing the construction and planting of the mitigation site.
16. The Applicant shall implement the mitigation plan's contingency measures if goals, objectives, and performance standards are not being met.
17. Prior to implementing unidentified contingency measures, the Applicant shall consult with Ecology.
18. When necessary to meet the performance standards, the Applicant shall replace dead or dying plants with the same species, or a native plant alternative appropriate for the location, during the first available planting season and note species, numbers, and approximate locations of all replanted materials in the subsequent monitoring report.
19. For monitoring years five and ten, the Applicant shall use the 1997 "Washington State Wetlands Identification and Delineation Manual" (or as updated) to delineate all compensatory wetlands and include delineation information (e.g. data sheets, maps, etc.) in the monitoring reports.
20. At the end of the monitoring period, the Applicant shall use the August 2004 "Washington State Wetlands Rating System for {Western or Eastern} Washington" (or as updated) to rate all wetlands (except those that have been preserved), and include the information in the monitoring report.
21. If the Applicant has not met all the conditions and performance standards for wetland compensatory mitigation at the end of the monitoring period, Ecology may require additional monitoring, additional wetland compensatory mitigation, or both.

22. The Applicant's responsibility to complete the required compensatory mitigation as set forth in Condition F. 1 of this Order will not be considered fulfilled until they have received written verification from Ecology.

G. Emergency/Contingency Measures:

1. The Applicant shall develop and implement a spill prevention and containment plan for this project and shall have spill cleanup material available on site at all times during construction.
2. Any work that is out of compliance with the provisions of this Order, or producing conditions that are causing distressed or dying fish, or causing any discharge oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters is prohibited. If such work occurs, the Applicant immediately takes the following actions:
 - a. Cease operations at the location of the violation;
 - b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage;
 - c. In the event of finding distressed or dying fish, collect fish specimens and water samples in the affected area within the first hour of the event. These samples shall be held in refrigeration or on ice until the Applicant receives further instructions from Ecology. Ecology may require analyses of these samples before allowing the work to resume.
 - d. In the event of a discharge of oil, fuel, or chemicals into state waters, or onto land with potential for entry into state waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible. This work shall take precedence over normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials;
 - e. Immediately notify Ecology's Southwest Region for spill occurring in Clark County at 360-407-6300. The notification must include information on the nature of the problem, actions taken to correct the problem, and any proposed changes in operations to prevent further problems.
 - f. Immediately notify National Response Center at 1-800-424-8802 for spills to water.

H. Appeal Process:

You have a right to appeal this Order. To appeal this you must:

- File your appeal with the Pollution Control Hearings Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours.
- Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). "Date of receipt" is defined at RCW 43.21B.001(2).

Be sure to do the following:

- Include a copy of this document that you are appealing with your Notice of Appeal.
- Serve and file your appeal in paper form; electronic copies are not accepted.

1. To file your appeal with the Pollution Control Hearings Board

Mail appeal to:

The Pollution Control Hearings Board
PO Box 40903
Olympia WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board
4224 – 6th Ave SE Rowe Six, Bldg 2
Lacey WA 98503

2. To serve your appeal on the Department of Ecology

Mail appeal to:

The Department of Ecology
Appeals & Application for Relief
Coordinator
PO Box 47608
Olympia WA 98504-7608

OR

Deliver your appeal in person to:

The Department of Ecology
Appeals & Application for Relief Coordinator
300 Desmond Dr SE
Lacey WA 98503

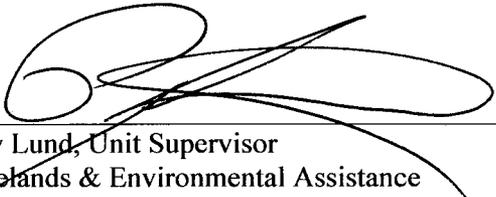
3. And send a copy of your appeal to:

Lori Ochoa
Department of Ecology
Southwest Region
P.O. Box 47775
Olympia, WA 98504-7775

*For additional information visit the Environmental Hearings Office Website: <http://www.eho.wa.gov>
To find laws and agency rules visit the Washington State Legislature Website:
<http://www.leg.wa.gov/CodeReviser>*

Your appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320. These procedures are consistent with Ch. 43.21B RCW.

DATED this 30 day of MARCH, 2009 at Olympia, Washington


Perry Lund, Unit Supervisor
Shorelands & Environmental Assistance
Ecology Southwest Region
State of Washington

Attachment A
Water Quality Certification Order #6521
Statement of Understanding

I, _____, state that, I will be involved as a Clark County Public Works employee or an agent or contractor for Clark County Public Works Department in NE Ward Road/172nd Avenue Road Project in Clark County, WA. I further state that I have read and understand the relevant conditions of Washington Department of Ecology **Water Quality Certification Order #6521** and the applicable permits and approvals referenced therein which pertain to the project-related work for which I am responsible.

Signature

Date

Company

Phone number

Address

City, State, and Zip Code

Attachment B
Information for As-built Reports
(See Condition F.10)

NW Ward Road/172nd Avenue Transportation Project
Water Quality Certification Order # 6521
And
Corps Reference # NWS-2001-622-SOD

Background Information

- 1) Project name.
- 2) Ecology docket number and the Corps reference number.
- 3) Name and contact information for the parties responsible for the mitigation site including:
 - a) The applicant.
 - b) The landowner.
 - c) Wetland professional on site during construction of the compensatory mitigation site.
- 4) Name and contact information for the party responsible for preparing the report.
- 5) Who the report was prepared for (name, address, and phone number) *{if different from number 3 above.}*
- 6) Month and year the report was produced.

The Development Site

- 7) Brief description of the development project. Include:
 - a) Directions to the site.
 - b) Month and year construction of the development project started and ended.
 - c) Area (acres) and type(s) (rating category, HGM classification, and Cowardin classification) of wetlands that were **actually** impacted by the development project, including temporary impacts.

The Compensatory Mitigation Project

- 8) Brief description of the **final** compensatory mitigation project with any changes from the approved plan made during construction. Include:
 - a) Directions to the site.
 - b) Who completed the compensatory mitigation project (name, address, and phone number).
 - c) Acreage and type(s) (re-establishment, rehabilitation, creation, enhancement, and preservation) of mitigation authorized to compensate for wetland impacts.
 - d) Important dates including:
 - i. Month and year the wetland impacts occurred.
 - ii. When work on the compensatory mitigation site began and ended.
 - iii. When different activities began and ended such as grading, removal of invasive plants, installing plants, and installing habitat features.

- 9) Description of any problems encountered and solutions implemented (with reasons for changes) during construction of the compensatory mitigation site.
- 10) Any changes to the goals, objectives, and performance standards of the compensatory mitigation project.
- 11) List of any follow-up actions needed, with a schedule.
- 12) Final site maps (8 1/2" x 11" or larger) of the compensatory mitigation site(s) including the following (at a minimum).
 - a) Geographic location of the site with landmarks;
 - b) Clear delineation of the project perimeter(s);
 - c) Topography (with a description of how elevations were determined);
 - d) Installed planting scheme (quantities, densities, sizes, and approximate locations of plants, as well as the source(s) of plant material);
 - e) Location of habitat features;
 - f) Location of permanent photo stations.

The final site maps should reflect on-the-ground conditions after the site work is completed. Include the month and year when the maps were produced and, if applicable, when information was collected.

- 13) Photographs of the site at as-built conditions taken from permanent photo stations. We recommend photo pans.
- 14) Copies of any records of deed notification or conservation easements.

Attachment D
Required Information for Monitoring Reports
(See Condition F.15)

NW Ward Road/172nd Avenue Transportation Project
Water Quality Certification Order # 6521
And
Corps Reference # NWS-2001-622-SOD

Ecology requires the following information, for monitoring reports submitted under this Order. Ecology will accept additional information that may be required by other regulators.

Background Information

- 1) Project name
- 2) Ecology docket number and Corps reference number
- 3) Name and contact information of the parties responsible for the mitigation site including:
 - a) The applicant
 - b) The landowner
- 4) Name and contact information for the party responsible for the monitoring activities and report
- 5) Who the report was prepared for (name, address, and phone number) *{if different from number 3 above.}*
- 6) Month and year the monitoring data were collected
- 7) Month and year the report was produced

Mitigation Project Information

- 8) Brief description of the mitigation project including:
 - a) Directions to the site
 - b) Acreage and type(s) (re-establishment, rehabilitation, creation, enhancement, and preservation) of mitigation authorized to compensate for wetland impacts
- 9) Brief description of monitoring approach and methods.
- 10) A list of the goals and objectives for the mitigation project
- 11) Summary table of monitoring data compared with performance standards. Using the monitoring data, describe how the site is developing toward goals and objectives and whether the project is in compliance with performance standards
- 12) Summary (including dates) of management actions (maintenance, contingencies, and corrective actions) implemented at the site(s)
- 13) Summary of any difficulties or significant events that occurred on the site that may affect the ultimate success of the project
- 14) Specific recommendations for any additional corrective actions or adaptive management with a time table
- 15) Summary of any lessons learned

- 16) Site maps (8 1/2" x 11" or larger) of the compensatory mitigation site(s) including the following (at a minimum):
 - a) The month and year when the maps were produced and, if applicable, when information was collected
 - b) The geographic location of the site with landmarks.
 - c) Clear delineation of the project perimeter(s).
 - d) Species, numbers, and approximate locations of all replanted material vegetation.
 - e) Location of habitat features.
 - f) Location of permanent photo stations and location of any other photos.
 - g) Location of sampling points or transects.
- 17) Photographs taken at permanent photo stations (and other photographs as needed) from the most recent monitoring visit, which are dated and clearly indicate the direction from which the photo was taken. We recommend photo pans.