

General



To/MS: SWAT TEAM MEMBERS
From/MS: Steve Veenis, ENV-WQH, MS K497 SV
Phone/Fax: /5-9344
Symbol: ENV-WQH: 06-022
Date: January 31, 2006

memorandum

Environmental Stewardship Division (ENV-DO)
Water Quality & Hydrology Group (ENV-WQH)



SUBJECT: FINAL SURFACE WATER ASSESSMENT TEAM MEETING MINUTES FOR NOVEMBER 9, 2005

1.0 PURPOSE

The Surface Water Site Assessment Team (SWAT) consisting of staff members from LANL, DOE, DOE-OB and NMED is tasked with providing a review the Laboratory's Storm Water Management Program for the Federal Facilities Compliance Agreement (FFCA) Docket No. CWA-06-2005-1701 and Administrative Order Docket No. CWA-05-2005-1734. The SWAT role is to provide a review of storm water issues and to build consensus on recommendations associated with Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). Items of discussion will include but are not limited to; monitoring locations, potential pollutants, action levels, corrective actions, BMP effectiveness studies and permitting concerns. A draft agenda was distributed to SWAT members for review and comment (Handout 1).

2.0 REVIEW OF OCTOBER 19, 2005 DRAFT MEETING MINUTES

The October 19, 2005 draft meeting minutes were distributed for review and comment prior to the meeting (Handout 2). The meeting minutes were reviewed and the following comments/changes were noted. At the October 19, 2005 meeting, Barbara Hoditschek (BH) brought up some problems she was having with accessing the WQH website using Discoverer tool. It was noted in the minutes that this problem has not been corrected and that follow up was needed by WQH staff to correct the problem.

BH asked that minor edits to Section 4.0 DOE/OB BMP Inspections 2005 be made. The edits were made and were incorporated. SV suggested that a meeting be held with BH, Shaw Environmental and himself to discuss particular issues. Shaw is conducting a crosswalk with BH listed concerns and their BMP inspections and maps to determine where/how the problems are occurring.

SV provided an update on the Hillside 137 Project. The work planned for FY05 has been cancelled due to subsidence of the electrical utility corridor in the immediate area, and LANL engineering does not want any construction occurring near the utility corridor.

BH requested the LANL precipitation data for the 2005 season. CS will provide at next SWAT meeting. CS will also provide the url for the Environmental Stewardship Division external web site, where pdf versions of FFCA documents and reports may be accessed.



Erik Galloway (EG) requested that he be included in the distribution list for future SWAT minutes. This request was completed.

Steve Veenis (SV) will make all edits and distribute upon completion (Action: SV).

3.0 UPDATE ON FY05 STORM WATER MONITORING RESULTS

SV provided an update to the SWAT on the 2005 storm water monitoring results. One hundred ninety one (191) watershed scale and three hundred twelve (312) site-specific scale samples were collected this year. SV stated that a majority of the wSAL exceedances that observed were attributed to naturally occurring constituents such as Al, Mg, As, V and Se. However, there were also several wSAL exceedances related to Laboratory-derived constituents such as Pb, Ag, Hg, and PCBs. SV suggested that many of the exceedances were related to the large storm events that occurred this summer on the Pajarito Plateau. There were two 10-year 24 hour events and one 30-year 24 hour events that likely moved a lot of sediment.

SV stated that the follow up BMPs were being installed as fast as possible and that many were completed. However, due to more stringent requirements at some Laboratory areas (i.e., DX) that excavation reviews were being submitted and were in the evaluation process. Once the reviews are approved, the remaining BMPs will be installed. SV hoped that these would be completed prior to the winter snowfall. (Action: SHAW)

4.0 DISCUSSION OF BACKGROUND VS. LABORATORY DERIVED CONSTITUENTS

SV presented an overview of the current monthly wSAL reporting process employed by LANL which differentiates between Laboratory-derived and Non-Laboratory derived constituents (Handout 3). Each monthly wSAL report has the following eight tables;

- wSAL Screening Summary for Potential Laboratory Derived Pollutants (watershed)
- wSAL Screening Summary for Potential Non-Laboratory Derived Pollutants (watershed)
- wSAL Screening Summary for Potential Laboratory Derived Pollutants (site-specific)
- wSAL Screening Summary for Potential Non-Laboratory Derived Pollutants (site-specific)
- wSAL Screening Summary for Gross Alpha (watershed)
- wSAL Screening Summary for Gross Alpha (site-specific)
- Analytical Results Greater Than DOE DCG (watershed)
- Analytical Results Greater Than DOE DCG (site-specific)

At present, all results for aluminum, magnesium, and chemical oxygen demand are reported as "Potential Non-Laboratory Derived" pollutants. LANL is working on statistical tests to better identify natural causes for wSAL exceedances.

At the end of each monitoring year, the entire storm water data set is evaluated and recommendations are put forth in the annual modification of the Storm Water Monitoring Plan (SWMP) and the Storm Water Pollution Prevention Plan (SWMU/SWPPP). As with 2004, the Laboratory intends to recommend reduced monitoring of Sites which have wSAL exceedances of only potential Non-Laboratory Derived pollutants. The SWAT seemed amenable to this proposal. Ralph wanted the new WQS used to change the wSAL table. March 31, 2006 submittal of sampling plan is the appropriate time to make changes, if needed. NMED requested that copies of the FFCA, Quarterly reports, SWPPPs be put on the WQH website. Cathy Smith (CS) will review this request and report back to team. (Action CS)

5.0 DEVELOPMENT OF DECISION MATRIX

CS discussed the development of the "Decision Matrix", a tool that will help summarize monitoring results and BMP installations on a sub-watershed scale to assist in the determination of collecting representative storm water samples. The tool is web-based and will allow interested participants to retrieve information about site-specific monitoring locations. Once the tool is complete, a demonstration will be made and access to the site will be provided. (Action CS)

6.0 APPROACH TO MONITORING LOW EROSION POTENTIAL SITES

While the main focus of the FFCA/AO is to collect storm water samples from "high potential" sites, another effort is beginning to assess how the collection of samples from "low potential" sites might occur under the individual permit. SV proposed a series of steps that may be used to determine which sites could be monitored in the future;

1. Identify Sites that do not require monitoring: Sites with approved NFAs, Sites co-located with conventional industrial activities under the MSGP and Sites that qualify for the No Exposure certification.
2. Create GIS maps to identify Sites that are located within SMA drainages and those **not located** within SMA drainages.
3. Determine the distance to nearest downstream gage station from Sites not located within SMA.
4. Assume Sites not located within SMA but located within 0.5 mile of the gage station as the initial screen as a starting point are representatively monitored by the gage station.
5. Create new SMAs for sites greater than 0.5 miles beyond nearest gage station
6. Recommend installation of new gage stations where gaps are observed.
7. Recommend deactivating stations not collecting representative samples.

LANL intends to complete this evaluation in early 2006. (Action: WQH) Once the results are obtained, the SWAT will review and make additional recommendations. BH recommended that we consider re-evaluating the SWAT DQO notes that addressed SWMU-specific monitoring. The SWAT thought this was a good idea.

7.0 UPDATE ON NMED TMDL PROCESS

The NMED/SWQB requested storm water data collected during 2005 from LANL's ENV-WQH Group. The data will be used by SWQB in their upcoming efforts to develop Total Maximum Daily Loads (TMDLs) for the Pajarito Plateau. The SWQB will develop a Study Plan to begin the process of listing impaired waters (303(d) list) and will then be required to develop TMDLs over the next several years. The Laboratory has expressed an interest in supporting the SWQB in their efforts, particularly where storm water sample collection has been ongoing at the Laboratory since the Cerro Grande Fire (Action Bruce Gallaher). RP stated that the NPDES individual permit will probably be completed before the TMDLs are finalized.

8.0 ACTION ITEMS FOR NEXT SWAT MEETING

The next SWAT meeting was tentatively scheduled for December 21st. Since the holidays are so close the meeting may be rescheduled for January 2006. SV will notify SWAT once determination is made. (Action: SV)

Participants:

Bruce Gallaher (BG)
Barbara Hoditschek (BH)
Erik Galloway (EG)
Rich Powell (RP)
Steve Veenis (SV)
Mike Saladen (MS)
Cathy Smith (CS)
Ralph Ford-Schmid (RFS)
Jean Dewart (JD)
John Young (JY)

SV/tml

Distribution

Rich Powell, NMED/SWQB, Santa Fe, NM
Sandy Spon, NMED/SWQB, Santa Fe, NM
Ralph Ford-Schmid, NMED/OB, Santa Fe, NM
Barbara Hoditschek, NMED/OB, Santa Fe, NM
Erik Galloway, NMED/OB, Santa Fe, NM
Gene Turner, NNSA/LASO, MS A316
Greg Huey, NMED/OB, Santa Fe, NM,
Jennifer Ickes, NMED/OB, Santa Fe, NM,

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Distribution (continued):

Jean Dewart, ENV-ERS, MS J978
Mike Saladen, ENV-WQH, MS K497
Steve Veenis, ENV-WQH, MS K497
Kevin Buckley, ENV-WQH, MS K497
Cathy Smith, ENV-WQH, MS K497
Deborah Apodaca Pesiri, ENV-WQH, MS K497

Cy: Taylor Sharpe, EPA Region VI, Dallas, Texas
Isaac Chen, EPA Region VI, Dallas, Texas
Marcy Leavitt, NMED/SWQB, Santa Fe, NM
James Bearzi, NMED/HWB, Santa Fe, NM
John Young, NMED/HWB, Santa Fe, NM
Kenneth Hargis, ENV-DO, MS J591
Doug Stavert, ENV-DO, MS J591
Jean Dewart, ENV-ERS, MS M992
Dave McInroy, ENV-ERS, MS M992
Alison Dorries, ENV-ECR, MS M992
Joe English, ENV-ECR, MS M992
Steven Rae, ENV-WQH, MS K497
Mike Alexander, ENV-WQH, MS K497
Phil Wardwell, LC-ESH, MS A187
Elmer Alcon, Shaw Environmental, MS M892
ENV-WQH File, MS K497