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**Comments:** ATTACHED IS THE MONTHLY STATUS REPORT FOR THE SHERWIN-WILLIAMS SITE IN EMERYVILLE, CALIFORNIA.

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**MONTHLY SUMMARY REPORT  
SHERWIN-WILLIAMS, EMERYVILLE, CALIFORNIA  
April 1998**

**I. ACTIONS TAKEN: MARCH 1998**

**A. IRMs**

***Extraction and Treatment System Expansion***

- Sherwin-Williams proceeded with treatability studies the week of March 9 to evaluate alternative proprietary technologies for the groundwater treatment system as developed by MSE Technologies, Inc. (MSE). A work plan was submitted to the RWQCB with a copy to DTSC staff. The first set of studies were completed in March and MSE demobilized pending receipt and review of all data to evaluate the results. The results were very promising with discharge from the pilot system in the range of 50 to 100 ppb arsenic, however, refinements of the system were determined to be necessary if the technology is to achieve a discharge of less than 25 ppb.
- Sherwin-Williams continued to negotiate the sewer connection with the City of Emeryville (for discharge of treated groundwater) and was prepared to begin discharging treatment system effluent to EBMUD pending approval of the encroachment permit.
- LFR continued to evaluate placement of additional wells within the slurry wall based on site conditions and pump test data. Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May.

***Stormwater Handling***

- Continued monitoring of tanks containing stormwater/groundwater mixture. Evaluated options to either treat containerized water through the existing system or implement off-site treatment.
- Discharge of clean stormwater from the northern part of the site was all from the multi-point stormwater collection system.
- DTSC inspected the site and collected samples from the treatment system and the stormwater catch basins. LFR also took splits of the samples. Some of the catch basins indicated slightly elevated levels of arsenic and in response LFR resampled the catch basins and cleaned out water and sediment from the catch basins as well as flushing the discharge lines with clean water. The discharges from the multi-point system were sampled again in March during several storm events and the data indicated

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discharges were either nondetect or had slightly elevated concentrations, but in all cases were below drinking water action levels.

***Completion Reports***

- Continued to work on completion reports including the report on the Horton Street remediation and the stormwater summary report. Chiron was reviewing the Rifkin property report on demolition and disposal of the south brick wall and Sherwin-Williams was prepared to finalize this report upon receipt of Chiron comments.

***B. Site Investigation***

- Continued with the implementation of the tasks under the Site Cleanup Requirements Order. Work included preparation of the Health and Safety Plan, Quality Assurance Project Plan, Current Site Conditions, Site Use History, Human-Made Conduits Evaluation, Public Participation Plan, Evaluation of Existing IRMs and adjacent property access agreements.

***C. NPDES and Groundwater Monitoring***

- After receipt of groundwater and treatment system data from the lab, compiled data for the quarterly NPDES and groundwater monitoring reports and began to prepare the reports.
- Continued operation of groundwater treatment system and monitoring NPDES parameters with discharge to Temescal Creek. DTSC inspected the site and collected samples from the treatment system discharge to Temescal Creek. LFR collected splits of these samples and the results were below the 25 ppb discharge limit.
- Quarterly groundwater sampling and water level measurements were conducted for the second quarter 1998.
- Financial and capacity problems have been identified at the current laboratory designated for the project. Alternative labs were evaluated for the project.

***D. Other Tasks***

- The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams has not received input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR evaluated options for covering the wall pending regulatory approval of the risk analyses.

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- Groundwater elevation data and the fecal coliform and surfactant data collected in February was evaluated to determine a possible unknown water source within the slurry wall. This data was received and the data did not indicate the presence of fecal coliform or surfactants. Therefore it does not appear that a broken sanitary sewer line is the water source in the area where the data was collected.
- Mara Feeney and Associates continued with community interviews and began drafting the Public Participation Plan.

## II. ACTIONS EXPECTED: APRIL 1998

### A. IRMs

#### *Extraction and Treatment System Expansion*

- Sherwin-Williams authorized MSE to remobilize to the site to refine the treatability study work and run an additional 5 days of testing. The preliminary results have been received and the technology looks very promising with effluent sample results for 14 samples collected over 3 days all below 25 ppb. MSE will be summarizing the treatability studies for their proprietary technology based on the information gathered in March and April. Sherwin-Williams will evaluate whether to implement the MSE technology (based on the report to be prepared by MSE and costs to be developed based on the treatability studies) on a full scale or to expand the electro-chemical co-precipitation system. Upon selection of the treatment system technology, Sherwin-Williams will immediately authorize LFR (and MSE if applicable) to proceed with design of the full scale system since this task is a critical path item.
- Sherwin-Williams is prepared to proceed with sewer connection and discharge of treatment system effluent to EBMUD upon approval by City of Emeryville of an encroachment permit. Counsel for Sherwin-Williams has been calling counsel for the City virtually daily for the last several weeks but the City has not responded. As a result, the City's refusal to approve the sewer connection is the only impediment to advancing this remedial goal. The City's refusal to approve has already delayed this phase of remediation by several months and this was previously approved by EBMUD in December 1997. As a minimum, even a temporary 1-year connection will greatly facilitate the discharge of treated groundwater (and therefore the lowering of groundwater levels within the slurry wall) by allowing the current treatment system to run at a higher flowrate and to allow for discharge at slightly higher concentrations (200 ppb) while the groundwater treatment system is being expanded in the summer of 1998.
- Continue to evaluate placement of additional wells within the slurry wall based on pump test data. Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed

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number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May. LFR will begin to design the extraction system expansion immediately since this work is on the critical path for the project.

#### ***Stormwater Handling***

- Continue monitoring of tanks containing stormwater/groundwater mixture. Sherwin-Williams has decided to implement off-site treatment of the stormwater pending discussions with the RWQCB and DTSC.
- Continue with discharge of clean stormwater from the northern part of the site from the multi-point stormwater collection system. LFR will continue to collect samples from periodic stormwater discharges to verify the concentration of arsenic in the stormwater being discharged to the creek.

#### ***Completion Reports***

- Continue to work on the completion reports to the RWQCB including the report on the Horton Street remediation and the stormwater summary report. Upon receipt of comments from Chiron, submit the Rifkin property report on demolition and disposal of the south brick wall to the RWQCB.

### ***B. Site Investigation***

- Continue with the implementation of the tasks under the Site Cleanup Requirements Order. The Health and Safety Plan was submitted to the RWQCB on April 6, 1998 with copies going to the Consultative Workgroup members. Sherwin-Williams requested a 15-day extension for submittal of the Public Participation Plan (letter to RWQCB dated April 3, 1998) and this report will be finalized by April 20, 1998. Other work that will continue to be implemented includes the Quality Assurance Project Plan, Current Site Conditions, Site Use History, Human-Made Conduits Evaluation, Evaluation of Existing IRMs and adjacent property access agreements.

### ***C. NPDES and Groundwater Monitoring***

- Quarterly groundwater samples and water levels are to be collected for the second quarter 1998. Continue to compile data for the quarterly NPDES and groundwater monitoring reports and to prepare the reports. Reports to be submitted by the end of April.
- The treatment system experienced equipment problems with the electrochemical cell (E-cell) in the beginning of April. An internal fiberglass part in the E-cell (the second of two E-cells in series) was noticed to be cracked and the system was taken off line April 1, 1998. LFR is evaluating options to specially fabricate the piece of equipment or have the

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manufacturer fabricate another piece. The system may be operated with only one E-cell temporarily (to be determined by operating off-line without discharge to the creek) and if this is the case the system should be restarted by mid-April with discharge to the creek resuming. The RWQCB has been notified of this situation. Continue operation of treatment system and monitoring NPDES parameters with discharge to Temescal Creek once the repair issues are resolved.

- Financial and capacity problems have been identified at the current laboratory designated for the project. Quanterra has been selected as the new laboratory for the project.

#### ***D. Other Tasks***

- The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams needs to receive input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR has evaluated options for covering the wall pending regulatory approval of the risk analyses and discussion with the RWQCB and the DTSC.
- Continue to evaluate potential unknown sources of water within the slurry wall.

### **III. PLANNED ACTIVITIES – MAY 1998**

#### ***A. IRMs***

##### ***Extraction and Treatment System Expansion***

- MSE to complete a summary report concerning the treatability studies for their proprietary technology based on the information gathered in March and April. Sherwin-Williams will evaluate whether to implement the MSE technology (based on the report to be prepared by MSE and costs to be developed based on the treatability studies) on a full scale or to expand the electro-chemical co-precipitation system. Upon selection of the treatment system technology, Sherwin-Williams will immediately authorize LFR (and MSE if applicable) to proceed with design of the full scale system since this task is a critical path item.
- Sherwin-Williams is prepared to proceed with sewer connection and discharge of treatment system effluent to EBMUD upon approval by the City of Emeryville of an encroachment permit. Sherwin-Williams anticipates that the City will be cooperative in approving the discharge to the sanitary sewer which has already been approved by EBMUD. As a minimum, even a temporary 1-year connection will greatly facilitate the discharge of treated groundwater (and therefore the lowering of

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groundwater levels within the slurry wall) by allowing the current treatment system to run at a higher flowrate and to allow for discharge at slightly higher concentrations (200 ppb) while the groundwater treatment system is being expanded in the summer of 1998.

- Continue to evaluate placement of additional wells within the slurry wall based on pump test data. Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May. LFR will continue with design of the extraction system expansion.

#### ***Stormwater Handling***

- Continue monitoring of tanks containing stormwater/groundwater mixture. Sherwin-Williams has decided to implement off-site treatment of the stormwater pending discussions with the RWQCB and DTSC. Assuming discussions with the agencies are completed in April then Sherwin-Williams will authorize the off-site hauling and treatment of stormwater anticipated to be implemented in May (sooner if possible).
- Continue with discharge of clean stormwater (if any) from the northern part of the site from the multi-point stormwater collection system. LFR will continue to collect samples from periodic stormwater discharges to verify the levels of arsenic in the stormwater being discharged to the creek.

#### ***Completion Reports***

- Finalize the completion reports including the report on the Horton Street remediation and the stormwater summary report with submittal to the RWQCB. Upon receipt of comments from Chiron, submit the Rifkin property report on demolition and disposal of the south brick wall to the RWQCB.

#### ***B. Site Investigation***

- Continue with the implementation of the tasks under the Site Cleanup Requirements Order. RWQCB and the Consultative Workgroup to provide comments on the Health and Safety Plan and Public Participation Plan submitted in April. Other work that will continue to be implemented includes the Quality Assurance Project Plan, Current Site Conditions, Site Use History, Human-Made Conduits Evaluation, Evaluation of Existing IRMs and adjacent property access agreements. The QAPP and the Evaluation of Existing IRMs are scheduled to be submitted in May.

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### **C. NPDES and Groundwater Monitoring**

- Receive and evaluate the data from the second quarter groundwater sampling and water level measurements conducted the previous month.
- Continue operation of treatment system and monitoring NPDES parameters with discharge to Temescal Creek and/or discharge to the sanitary sewer if the encroachment permit is approved by the City of Emeryville (see above).

### **D. Other Tasks**

- The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams needs to receive input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR has evaluated options for covering the wall pending regulatory approval of the risk analyses and discussion with the RWQCB and the DTSC.
- Continue to evaluate potential unknown sources of water within the slurry wall.

## **IV. ACTION ITEMS BY OTHERS**

- Need approval from the City for the encroachment permit to discharge to the sanitary sewer.
- RWQCB approval needed for the risk analyses conducted on the retaining wall on Horton Street.
- Chiron to approve wall demolition and disposal report prior to Sherwin-Williams submitting the report to the RWQCB.
- Need input from the RWQCB and Consultative Workgroup on the Health and Safety Plan and Public Participation Plan (submittal pending as of the date of this report).
- RWQCB scheduling of the next Consultative Workgroup meeting. Sherwin-Williams suggests meeting in early June to discuss submittals prior to that date including Evaluation of Existing IRMs.

## **V. COMPLIANCE WITH ORDER**

- The following deliverables for tasks, currently ongoing, are anticipated to be submitted by the dates noted. The tasks and schedule are in accordance with the Site Cleanup Requirements Order.

<u>Task</u>	<u>Anticipated Delivery Date</u>
Health and Safety Plan	April 6, 1998*



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Public Participation Plan	April 20, 1998
QAPP	May 5, 1998
Evaluation of Existing IRMs	May 20, 1998
Current Site Conditions, Site Use History, and Human-Made Conduits	June 19, 1998

\* REPORT SUBMITTED

- At this time, one obstacle has been identified which threatens compliance with the requirements of the Order. As noted above, the currently designated lab for the project has experienced capacity and financial problems. The delivery date for the QAPP may be delayed because an alternative lab has been selected and, in turn, the lab's input to the QAPP is critical to the preparation of the document. The request for extension of the Public Participation Plan was noted in Sherwin-William's letter to the RWQCB dated April 3, 1998 with request for 15-day extension. No other obstacles have been identified which threaten compliance with the Order.