

## CONTOUR MAP REPORTING FORM

### Shallow Wells, May 2011 - PPG Garfield Avenue Group RI

This reporting form shall accompany each groundwater contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes... **No**... If yes, attach new "Well Certification--Form B--Location Certification" as found in the "Guide for the Submission of Remedial Action Workplans" (NJDEP, March 1995) and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? **Yes**... No... If yes, identify these wells.

**MW1A, MW5A, MW7A, MW8A, MW13A, 114-MW14A, 114-MW16A, 114-MW22A, MW2S, MW-5S, 135-MW2A, 137-MW2A**

3. Are there any monitor wells present at the site but omitted from the contour map? **Yes**... No... Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

**Several wells were inaccessible due to equipment or vehicles that could not be moved.**

4. Are there any monitor wells containing separate phase product during this measuring event? Yes... **No**... Were any of the monitor wells with separate phase product included in the groundwater contour map? Yes... **No**... If yes, show the formula used to correct the water table elevation.

5. Has the groundwater flow direction changed more than 45 degrees from the previous groundwater contour map? Yes... **No**... If yes, discuss the reasons for the change.

6. Has groundwater mounding and/or depressions been identified in the groundwater contour map? **Yes**... No... Unless the groundwater mounds and/or depressions are caused by the groundwater remediation system, discuss the reasons for this occurrence.

**Ongoing construction and remediation activities at the Site.**

7. Are all the wells used in the contour map screened in the same water-bearing zone? **Yes**... No... If no, justify inclusion of those wells.

8. Were the groundwater contours computer generated..., computer aided..., or **hand-drawn**...? If computer aided or generated, identify the interpolation method(s) used.

## CONTOUR MAP REPORTING FORM

### Intermediate Wells, May 2011 - PPG Garfield Avenue Group RI

This reporting form shall accompany each groundwater contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? **Yes...** **No...** If yes, attach new "Well Certification--Form B--Location Certification" as found in the "Guide for the Submission of Remedial Action Workplans" (NJDEP, March 1995) and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? **Yes...** **No...** If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? **Yes...** **No...** Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

**Several wells were inaccessible due to equipment or vehicles that could not be moved.**

4. Are there any monitor wells containing separate phase product during this measuring event? **Yes...** **No...** Were any of the monitor wells with separate phase product included in the groundwater contour map? **Yes...** **No...** If yes, show the formula used to correct the water table elevation.

5. Has the groundwater flow direction changed more than 45 degrees from the previous groundwater contour map? **Yes...** **No...** If yes, discuss the reasons for the change.

6. Has groundwater mounding and/or depressions been identified in the groundwater contour map? **Yes...** **No...** Unless the groundwater mounds and/or depressions are caused by the groundwater remediation system, discuss the reasons for this occurrence.

**Possible leaking storm sewer line.**

7. Are all the wells used in the contour map screened in the same water-bearing zone? **Yes...** **No...** If no, justify inclusion of those wells.

8. Were the groundwater contours computer generated..., computer aided..., or **hand-drawn...**? If computer aided or generated, identify the interpolation method(s) used.

## CONTOUR MAP REPORTING FORM

### Deep Wells, May 2011 - PPG Garfield Avenue Group RI

This reporting form shall accompany each groundwater contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes... **No**... If yes, attach new "Well Certification--Form B--Location Certification" as found in the "Guide for the Submission of Remedial Action Workplans" (NJDEP, March 1995) and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes... **No**... If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? **Yes**... No... Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

**Several wells were inaccessible due to equipment or vehicles that could not be moved.**

4. Are there any monitor wells containing separate phase product during this measuring event? Yes... **No**... Were any of the monitor wells with separate phase product included in the groundwater contour map? Yes... **No**... If yes, show the formula used to correct the water table elevation.

5. Has the groundwater flow direction changed more than 45 degrees from the previous groundwater contour map? Yes... No... If yes, discuss the reasons for the change.

**This could not be properly assessed because several wells were inaccessible and could not be measured.**

6. Has groundwater mounding and/or depressions been identified in the groundwater contour map? **Yes**... No... Unless the groundwater mounds and/or depressions are caused by the groundwater remediation system, discuss the reasons for this occurrence.

**A depression is evident. However, several wells could not be measured and the GW flow could not be fully assessed.**

7. Are all the wells used in the contour map screened in the same water-bearing zone? **Yes**... No... If no, justify inclusion of those wells.

8. Were the groundwater contours computer generated..., computer aided..., or **hand-drawn**...? If computer aided or generated, identify the interpolation method(s) used.

## CONTOUR MAP REPORTING FORM

### Deep Wells, May 2011 - PPG Garfield Avenue Group RI

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2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes... **No**... If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? **Yes**... No... Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

**One well was located in an excavation area and could not be safely measured.**

4. Are there any monitor wells containing separate phase product during this measuring event? Yes... **No**... Were any of the monitor wells with separate phase product included in the groundwater contour map? Yes... **No**... If yes, show the formula used to correct the water table elevation.

5. Has the groundwater flow direction changed more than 45 degrees from the previous groundwater contour map? Yes... No... If yes, discuss the reasons for the change.

**This is the first bedrock groundwater elevation map for this Site.**

6. Has groundwater mounding and/or depressions been identified in the groundwater contour map? Yes... **No**... Unless the groundwater mounds and/or depressions are caused by the groundwater remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? **Yes**... No... If no, justify inclusion of those wells.

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