

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

INVESTIGATIVE ORDER NO. R9-2008-0097

An Order Directing  
County of San Diego, Department of Public Works  
5201 Ruffin Road, Suite D  
San Diego, CA 92123

To submit a technical report pertaining to a condition of pollution at the  
Bonsall Landfill, Twin Oaks Valley Road, Bonsall, California

Pursuant to its authority in California Water Code section 13267, the California  
Regional Water Quality Control Board, San Diego Region (herein after Regional  
Board) finds:

- 1. Offsite Release:** Detectable concentrations of volatile organic compounds (VOCs) were reported in groundwater samples collected in February 2008 from monitoring wells located downgradient of the landfill. Perchloroethylene (PCE) was detected at a concentration of 12 µg/L in a groundwater sample collected from offsite well BOGW-7. The reported concentration exceeds the applicable Water Quality Objective<sup>1</sup> and California Department of Public Health (CDPH) Maximum Contaminant Limit (MCL)<sup>2</sup> of 5 µg/L. The County of San Diego determined, in 1999, that "landfill gas appears to be the primary source of VOCs detected in groundwater."<sup>3</sup> Therefore, VOCs attributable to the wastes within the Bonsall Landfill have created a condition of pollution impacting beneficial uses of the waters of the State.
- 2. Party Responsible for the Release:**  
County of San Diego  
Department of Public Works  
5201 Ruffin Road, Suite D  
San Diego, CA 92122

The County of San Diego is identified as the party responsible for the release because it has owned the property since 1968 when landfill operations began. The landfill has been operated by the County or companies under contract to the County throughout landfill operations, closure, and post closure maintenance.

<sup>1</sup> The Water Quality Objective is established at 5 µg/L by the Water Quality Control Plan for the San Diego Basin (see Table 3-5, page 3-25) for "Tetrachloroethylene", which is a synonym for PCE.

<sup>2</sup> California Department of Public Health (CDPH) Maximum Contaminant Limit (MCL) is established at 5 µg/L by CCR Title 22, section 64444: Table 6-4444-A.

<sup>3</sup> Rollin, Jon, 1999. Cover letter to Bonsall Landfill – Report of Finding Evaluation Monitoring Program RWQCB Order No. 97-15. December 3.

- 3. History of Waste Disposal:** The Bonsall Sanitary Landfill operated from 1968 to 1985 as a Class II landfill. Approximately 1.8 million tons of wastes, including a mixture of residential and commercial refuse, non-decomposable inert solids, occasionally sewage sludge and dead animals were disposed of into the landfill. The landfill and the impacted environmental media (soil, groundwater, etc.) constitute the "Site."
- 4. Discovery of the Release:** The Final Solid Waste Assessment Test (SWAT) for the Bonsall Sanitary Landfill, dated January 1993, identified a total of fourteen volatile organic compounds (VOCs) in groundwater beneath the site. Seven VOCs were detected in samples from downgradient wells at concentrations that exceed Drinking Water MCLs.
- 5. Evaluation and Monitoring Program (EMP):** The County of San Diego initiated an EMP, as documented in Finding 11 of Order No. 97-15. A technical report including the Findings from the EMP was submitted to the Regional Board in December 1999. The report concluded that landfill gas is the primary source of impacts to groundwater. The report included an Engineering Feasibility Study and recommendations to make improvements to the landfill gas extraction system. The recommended improvements were reportedly completed in March 2000.
- 6. Beneficial Uses of Groundwater:** The Bonsall Landfill is located within the Bonsall Hydrologic Subarea (Basin 903.12), which has the following beneficial uses of water designated in the *Water Quality Control Plan for the San Diego Basin* (Basin Plan, Tables 2-2 and 2-5).

Hydrologic Unit/Watershed	Hydrologic Subarea Basin No.	Designated Beneficial Use <sup>4</sup>
<b>Ground Water</b>		
San Luis Rey HU	Lower San Luis HA 903.10	Municipal and Domestic Supply
		Agricultural Supply
		Industrial Process Supply

<sup>4</sup> According to the Basin Plan, beneficial uses are the uses of water necessary for the survival or well being of man, plants, and wildlife. These uses of water serve to promote the tangible and intangible economic, social, and environmental goals of mankind.

Hydrologic Unit/Watershed	Hydrologic Subarea Basin No.	Designated Beneficial Use <sup>4</sup>
<b>Surface Water</b>		
San Luis Rey River WS	Gopher Canyon HU 903.12	Agricultural Supply
		Industrial Process Supply
		Contact Water Recreation
		Non-contact Water Recreation
		Warm Freshwater Habitat

San Diego County identified eight offsite irrigation wells in the vicinity of the landfill during a survey conducted in 2003.<sup>5</sup>

- 7. Condition of Pollution and/or Nuisance:** As documented in Finding 1, the discharge/release of waste constituents (*i.e.*, VOCs) via landfill gas has created conditions of pollution and/or nuisance in groundwater resources; has adversely affected conditions in the subsurface environment; and has caused the offsite groundwater to exceed or threaten to exceed water quality objectives<sup>6</sup> (WQOs) that support the beneficial uses listed in Finding 6. A discharge of waste that creates a condition of pollution is a violation of Regional Board Order No. 97-15, and waste discharge prohibitions in the Basin Plan.
- 8. Legal and Regulatory Authority:** This Order is based on (1) section 13267 of the Water Code; (2) applicable state and federal regulations (California Code of Regulation (CCR) Title 27; (3) all applicable provisions of statewide Water Quality Control Plans adopted by the State Board and the Basin Plan adopted by the Regional Board; including beneficial uses, WQOs, and implementation plans; (4) SWRCB policies, including State Water Resources Control Board (SWRCB) Resolution No. 68-16 (Statement of Policy with Respect to Maintaining High Quality Waters in California) and SWRCB Resolution No. 88-63 (Sources of Drinking Water), and (5) relevant standards, criteria, and advisories adopted by other state and federal agencies.

<sup>5</sup> GeoSyntec Consultants, 2004. Monitor Well Installation Report, Bonsall Landfill, San Diego, California. February

<sup>6</sup> According to the Water Code section 13050(h) "Water Quality Objectives" means the limits or levels of water quality constituents or characteristics which are established for the reasonable protection of beneficial uses of water or prevention of nuisance within a specific area

Water Code section 13267 provides:

“(b) (1) In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.”

**9. California Code of Regulations Title 27 Requirements:** As documented in Finding 2 of Addendum 1 to Order No. 97-15, Bonsall Landfill is subject to the requirements for protection of water resources in Title 27, section 20380 *et seq.* Applicable requirements of Title 27 include the following:

- a. Section 20385 Specifies that an Evaluation Monitoring Program (EMP) (under section 20425) shall be instituted when there is evidence of a release from the unit.
- b. Section 20425(b) requires that the release of waste constituents is delineated within 90 days.
- c. Section 20425(c) requires that the Engineering Feasibility Study be updated for the required corrective action within 90 days of establishing an EMP.
- d. Section 20425(d) requires an Amended Report of Waste Discharge (ROWD) be submitted to establish a corrective action program meeting the requirements of section 20430. The discharger shall submit this report to the Regional Board within 90 days of establishing an evaluation program. The ROWD shall include the following information:

- i. **Delineation of Release** — a detailed assessment of the nature and extent of the release from the Unit;
- ii. **Water Standard** — a proposed Water Standard under section 20390, including any proposed cleanup levels greater than background (CLGBs) under section 20400, and all data necessary to justify each such limit;
- iii. **Corrective Action Measures** — a detailed description of proposed corrective action measures that will be taken to achieve compliance with the Water Standard proposed for a corrective action program; and
- iv. **Monitoring Plan** — a plan for a water quality monitoring program that includes all the required elements of an EMP (under section 20415) and demonstrates the effectiveness of any proposed corrective action.

**12. Necessity of Reporting:** CCR Title 27, section 20425(d) requires that the Discharger submit an amended ROWD as a product of the EMP. An amended ROWD has not yet been submitted to the Regional Board and is required by this order. The ROWD will contain information that enables the Regional Board to determine what additional environmental activities are necessary at the Site and/or if further enforcement action(s) are warranted.

- a. Waste constituents (*i.e.*, VOCs) attributed to landfill gas migration remain in monitoring wells downgradient of the landfill despite the corrective actions that were completed in 2000. The most recent semi-annual groundwater monitoring report does not define the extent of VOC migration to the northeast, north, and northwest of the landfill; therefore a technical report describing a complete investigation and delineation of the release is required.
- b. A draft Water Standard was submitted to the Regional Board in 2000. It was rejected by the Regional Board because it was based on methods that may not be appropriate. A revised Water Standard based on appropriate methods and incorporating recent data is needed to evaluate the effectiveness of corrective actions.
- c. Further corrective action is required to address the ongoing condition of pollution and achieve compliance with the Water Standard. The information contained in the Amended ROWD will enable the Regional Board to evaluate the proposed corrective actions.

- d. A monitoring program capable of demonstrating the effectiveness of the corrective action is required. The effectiveness of the corrective actions over the past 8 years has not been evaluated under the current monitoring program. The revised monitoring program must be capable of demonstrating the effectiveness of the corrective action and identifying when optimization or further action is needed.

**13. Regulatory Basis and Necessity for Submittal of Technical Reports:** An amended Report of Waste Discharge is required for completion of an EMP, under CCR Title 27, section 20425(d). Pursuant to Water Code section 13267(a), the Regional Board may investigate the quality of any waters of the state within the Regional Board's boundaries. As part of the water quality investigation, Water Code section 13267(b)(1) authorizes the Regional Board to require the submittal of a technical report with the caveat that the burden of the report bear a reasonable relationship to the need and benefits to be obtained from the report.

A technical report is needed to provide information to the Regional Board regarding condition of pollution attributed to the Bonsall Landfill. The benefits to be obtained from a technical report include enabling the Regional Board to determine if the condition of pollution poses a threat to users of groundwater in the vicinity of the site and providing technical information that will be used to determine what additional corrective actions are necessary to bring the site into compliance with applicable water quality objectives, and/or if an enforcement action(s) is warranted. Based on the nature and possible consequences of the discharges (as described in Findings No. 1, 7, and 8 above) the burden of providing the required report bears a reasonable relationship to the need for the report and the benefits to be obtained from the report.

**14. California Environmental Quality Act (CEQA) Compliance:** This enforcement action is being taken for the protection of the environment and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 et seq.) in accordance with CCR Chapter 3, Title 14, section 15308. The issuance of this Order is also an enforcement action taken by a regulatory agency and is exempt from the provisions of CEQA pursuant to CCR Chapter 3, Title 14, section 15321(a)(2). This action is also exempt from the provisions of CEQA in accordance with CCR Chapter 3, Title 14, section 15061(b)(3) because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment.

**15. Qualified Professionals:** Discharger reliance on qualified professionals promotes proper planning, implementation, and long-term cost-effectiveness of

investigation, and cleanup and abatement activities. Professionals should be qualified, licensed where applicable, and competent and proficient in the fields pertinent to the required activities. California Business and Professions Code sections 6735, 7835, and 7835.1 require that engineering and geologic evaluations and judgments be performed by or under the direction of licensed professionals.

**IT IS HEREBY ORDERED**, pursuant to section 13267 of the Water Code, by 5:00 pm on **March 30, 2009**, the Discharger is required to submit a scientifically-defensible technical report that fulfill the requirements for an amended Report of Waste Discharge and complies with the following directives:

#### **A. REPORTS**

**1. Amended Report of Waste Discharge:** The amended ROWD shall include the minimum information specified in CCR Title 27, section 20425(d)(2) and the following elements:

- a. **Delineation of Release:** A detailed assessment of the nature and extent of a release from the Unit. The delineation of release should be based on a site conceptual model (SCM) that provides a written or pictorial representation of the release scenario and the likely distribution of waste at the site, as well as potential pathways and receptors. The SCM must:
  - i. Identify and describe the types of wastes present including their distribution in space and time, and how the wastes are changing in space and time.
  - ii. Provide available current information on land and water uses in compliance with CCR Title 27, section 21750(h).
  - iii. Provide available current or updated information on hydrogeology in compliance with CCR Title 27, section 21750(g).
  - iv. Identify the potential, current and future receptors in the area and links between potential sources to potential receptors through transport of wastes in the air, soil and water; and identify the fate and transport of waste constituents in the context of the site characteristics. A current survey of offsite wells should be conducted. In compliance with CCR Title 27, section 21750(h), the Discharger shall identify all wells within 1 mile of the facility boundary and provide the additional information listed in section 21750(h). Analytical data should be presented for any wells that could be

impacted by the condition of pollution. Note the use of all wells (irrigation, domestic) and if use of the wells has been impaired due, at least in part, to the condition of pollution attributed to the landfill.

- v. Describe or show the physical characteristics and properties of the subsurface and identify the environmental issues that need to be investigated to resolve the extent and impact of groundwater pollution from the Bonsall Landfill. The analysis should include an evaluation of the fractured bedrock aquifer underlying the landfill to identify preferential flow paths that may exist.
  - vi. The SCM must include data interpretations, a discussion of the level of uncertainty of conclusions, outline data gaps remaining in the conceptual model, and describe the additional work needed to fill identified data gaps.
- b. **Water Standard:** A water standard shall be proposed (as required by CCR Title 27 section 20425(d)(2)(B)) that complies with Title 27 section 20390. The Water Standard shall include a list of constituents of concern (COC). The COC list shall include all waste constituents, reaction products, and hazardous constituents that are reasonably expected to be in or derived from the landfill. A concentration limit must be proposed for each COC using the criteria specified in CCR Title 27 section 20400. The discharger shall describe and provide supporting technical information to justify the method used to determine each concentration limit.
- c. **Corrective Action Measures:** A detailed description of proposed corrective action measure(s) that will be taken to achieve compliance with the Water Standard must be provided. Revise/update the Feasibility Study (EFS as required by CCR Title 27, section 20425(c)) based on the current nature and extent of the condition of pollution at the site and an evaluation of the effectiveness of the upgrades to the treatment system performed in 2000.
- i. At a minimum, the revised Engineering Feasibility Study shall contain a detailed description of the corrective action measures that could be taken to accomplish the following objectives:
    - A. abate any adverse effects, threats of pollution and/or nuisance created by the discharge of landfill gas/soil vapors from the Unit, and

- B. cleanup and abate effects from discharges of waste constituents/ degradation products into groundwater and achieve background concentrations<sup>7</sup> for all Constituents of Concern.
- ii. *Recommended Corrective Action Program*--A detailed description of a recommended Corrective Action Program describing the proposed corrective action measures that will be taken to achieve compliance with each proposed Water Standard, and includes the following information:
- A. *Scope of Action*--The corrective measures shall ensure that COCs achieve their respective concentration limits at all Monitoring Points and throughout the zone affected by the release, including any portions thereof that extend beyond the facility boundary, by removing the waste constituents or treating them in place.
  - B. *Source Containment*--The corrective action measures must result in effective control of the source(s) of soluble groundwater pollutants, and control of conditions that contribute to the migration of soluble pollutants from wastes.
  - C. *Public Participation Plan*. The Discharger shall develop a plan for public participation in the corrective action process. Public participation shall be consistent with all applicable State and local requirements. The plan shall be submitted to the Regional Board as part of the amended ROWD, and the Discharger shall modify the plan as requested by the Regional Board.
- d. **Monitoring Plan:** A plan for a water quality monitoring program must be proposed that will demonstrate the effectiveness of the proposed action. The monitoring plan must contain a proposed Constituents of Concern (COC) List (under CCR Title 27, section 20395) including waste constituents, reaction products and hazardous constituents that are reasonably expected to be present in or derived from waste contained in the Landfill Site. The initial COC list shall include all constituents listed in Appendix II to the Code of Federal Regulations Title 40 (40 CFR) Part 258. The COC list may be narrowed to include only those constituents

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<sup>7</sup> "Background" means the concentrations or measures of constituents or indicator parameters in water or soil that has not been affected by waste constituents or leachate from the waste management unit being monitored.

that are detected, in water and/or soil vapor samples, above practical quantitative limits (PQLs).

**e. Ongoing Monitoring:** Until the site achieves compliance with the Water Standard, monitoring data from groundwater and surface water are required. In addition to the requirements of Monitoring and Reporting Program No. 97-15, data must be provided for groundwater and the unsaturated zone to allow evaluation of the effectiveness of the treatment system.

- i. A sampling and analysis plan (SAP) indicating the EMP monitoring points and EMP Monitoring Parameters for soil-gas and groundwater is due no later than **November 14, 2008**.
- ii. Data from EMP monitoring conducted in accordance with the SAP required by Reporting requirement A.2.a shall be submitted semi-annually and incorporated into the semiannual reports currently required by Order No. 97-15 according to the following schedule:

Monitoring Period	Due Date for Report
April – September	Due no later than October 30
November - March	Due no later than April 30

**2. Transmittal Letter:** Each technical report required by this order shall be accompanied by a transmittal letter.

- a. **Content:** The transmittal letter shall include a brief discussion of the findings, conclusions, and recommendations of the associated report.
- b. **Certification Statement:** The person signing the Transmittal Letter shall make the following certification:

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

- c. Signatory Requirements:** A principal executive officer or ranking elected official shall sign the transmittal letter. If not feasible, the transmittal letter may be signed by a duly-authorized representative of the principal executive officer or ranking elected official only if:
- i. the authorization is made in writing by the principal executive officer or ranking elected official,
  - ii. the authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity, and
  - iii. the written authorization is submitted to the Regional Board Executive Officer together with the Investigation Report.

## **B. REPORTING TO THE REGIONAL BOARD**

All reports required by this order shall be submitted in paper copy to:

Assistant Executive Officer  
California Regional Water Quality Control Board, San Diego Region  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123-4340  
Attn: Supervisor Northern San Diego County Groundwater Unit

## **C. PROVISIONS**

1. **Contractor/Consultant Qualifications:** All reports, plans and documents required under this Order shall be prepared under the direction of appropriately qualified professionals. A statement of qualifications and license numbers, if applicable, of the responsible lead professional and all professionals making significant and/or substantive contributions shall be included in the report submitted by the Discharger. The lead professional performing engineering and geologic evaluations and judgments shall sign and affix their professional geologist or civil engineering registration stamp to all technical reports, plans or documents submitted the Regional Board.
2. **Lab Qualifications:** All samples must be analyzed by California State-certified laboratories using methods approved by the U.S. Environmental Protection Agency (USEPA) for the type of analysis to be performed. All laboratories must maintain quality assurance/quality control (QA/QC) records

for Regional Board review. Any report presenting new analytical data is required to include the complete Laboratory Analytical Report(s). The Laboratory Analytical Report(s) must be signed by the laboratory director and contain:

- a. a complete sample analytical report,
  - b. a complete laboratory quality assurance/quality control (QA/QC) report,
  - c. a discussion of the sample and QA/QC data, and
  - d. a transmittal letter that shall indicate whether or not all the analytical work was supervised by the director of the laboratory, and contain the following statement, "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services in accordance with current USEPA procedures."
- 3. Reporting of Changed Owner or Operator:** The Discharger must notify the Regional Board of any changes in site occupancy or ownership associated with the property described in this Order, within one month of the change.
- 4. Penalty of Perjury Statement:** All reports must be signed by the Discharger's principal executive officer or their duly authorized representative, and must include a statement by the official, under penalty of perjury, that the report is true and correct to the best of the official's knowledge.
- 5. Electronic Data Submittals:** All reports submitted to the Regional Board by the Discharger, pursuant to sections 13304 and 13267 of the Water Code, must be submitted in an electronic format. The Discharger shall comply with electronic reporting requirements of Title 23 of the California Code of Regulations, Division 3, section 3893, including the provision that complete copies of all reports be submitted in PDF format, and include the signed transmittal letter and professional certification. Electronic submittals are due according to the same schedule as the paper copies. To comply with section 3893, Title 23, CCR; your update to the GeoTracker database must include the following minimum information:
- a. Data generated after the effective date of the regulations by chemical analysis of soil, vapor, or water samples (including surface water,

groundwater and influent/effluent water samples from remediation systems), shall be submitted in Electric Data File (EDF) format.

- b. The latitude and longitude of any permanent monitoring well for which data is reported in EDF format, accurate to within 1 meter and referenced to a minimum of two reference points from the California Spatial Reference System (CSRS-H), if available.
- c. The surveyed elevation relative to a geodetic datum of any permanent monitoring well.
- d. The elevation of groundwater in any permanent monitoring well relative to the surveyed elevation.
- e. A site map or maps showing the location of all sampling points referred to in the report.
- f. The depth to the screened interval and the length of screened interval for any permanent monitoring well.
- g. Boring logs, in PDF format.
- h. A complete copy of the report, in PDF format, which includes the signed transmittal letter and professional certification.

The GeoTracker website address is <http://geotracker.waterboards.ca.gov>. Deadlines for electronic submittals coincide with deadlines for paper copy submittals.

#### D. NOTIFICATIONS

1. **Enforcement Discretion:** The Regional Board reserves its right to take any enforcement action authorized by law for violations of the terms and conditions of this Order.
2. **Enforcement Notification:** Water Code section 13268(a)(1) provides that any person failing or refusing to furnish technical or monitoring report information as required by Water Code section 13267(b), or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly for an administratively imposed liability of up to \$1,000 per day for each day compliance is not achieved with an Order issued in accordance with subdivision 13268(b).

### 3. Requesting Evidentiary Hearing by the Regional Board

Any person affected by this action of the Regional Board may request an evidentiary hearing before the Regional Board. The Regional Board's Executive Officer may elect to hold an informal hearing or a "paper hearing" in lieu of scheduling a hearing before the Regional Board itself. If you decide to request an evidentiary hearing, send your request to the Regional Board Executive Officer, Attn: Supervisor Central San Diego County Groundwater Unit, at the address provided on the Order transmittal letter. Please consider the following carefully:

- a. The Regional Board must receive your request within 30 days of the date of this Order.
- b. Your request must include all comments, technical analysis, documents, reports, and other evidence that you wish to submit for the evidentiary hearing. However, please note that the administrative record will include all materials the Regional Board has previously received regarding this site. You are not required to submit documents that are already in the record.
- c. The Executive Officer or Regional Board may deny your request for a hearing after reviewing the evidence.
- d. If you do not request an evidentiary hearing, the SWRCB may prevent you from submitting new evidence in support of a SWRCB petition.
- e. Your request for an evidentiary hearing, if you submit one, does not stay the effective date of the Order, whether or not a hearing is scheduled.
- f. A request for a hearing does not extend the 30-day period to file a petition with the SWRCB (see below). However, we suggest that you ask the SWRCB to hold the petition in abeyance while your request for a hearing is pending. (Refer to CCR Title 23 section 2050.5(d)) Additional information regarding the SWRCB petition process is provided below.

**4. Requesting Administrative Review by the SWRCB**

Any person affected by this action of the Regional Board may petition the SWRCB to review the action in accordance with section 13320 of the Water Code and CCR Title 23 section 2050. The petition must be received by the SWRCB (Office of Chief Counsel, P.O. Box 100, Sacramento, California 95812) within 30 days of the date of this Order. Copies of the law and regulations applicable to filing petitions will be provided upon request.

Ordered By:

The signature is written in cursive and includes the name "Michael P. McCann" written in a smaller font above the main signature line.

Michael P. McCann  
Assistant Executive Officer  
September 23, 2008