# STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

## REVISED MONITORING AND REPORTING PROGRAM NO. <u>CI-8685</u> FOR

## ANADITE, INC. SITE 10647 GARFIELD AVENUE, SOUTH GATE, CALIFORNIA

### ORDER NO. R4-2005-0030 (Series No. 043) FILE NO. 97-019

#### I. REPORTING REQUIREMENTS

A. The Anadite, Inc. (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (December 30, 2005) under Regional Board Order No. R4-2005-0030. The first monitoring report under this Program is due by April 15, 2006.

Monitoring reports shall be received by the dates in the following schedule:

Reporting Period	Report Due
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15

- B. If there is no discharge or injection, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: <u>Information</u> Technology Unit.
- C. The quarterly reports shall contain the following information regarding injection activities:
  - 1. Location Map showing injection/extraction well and monitoring wells
  - 2. Construction details of the wells
  - 3. Written summary defining:
    - Depth of injection within the wells;
    - Quantity of amendments injected per injection point;
    - Total amount of amendments injected at each pilot test area; and
    - Verification of amendments injected.

- D. All groundwater monitoring reports must include, at minimum, the following:
  - 1. Well identification, date and time of sampling;
  - 2. Sampler identification, and laboratory identification; and
  - 3. Quarterly observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.
- E. Within 90 days following the completion of the pilot studies, the Discharger shall submit a final report and remedial action plan (RAP) to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the pilot studies, conclusions regarding the effectiveness of the tested remediation technologies, and recommendations/plans for full-scale implementation of groundwater remediation activities. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.
- F. The Discharger shall comply with requirements contained in Section G of Order No. R4-2005-0030 "Monitoring and Reporting Requirements" in addition to the aforementioned requirements.

#### II. GROUNDWATER MONITORING PROGRAM

A groundwater monitoring program shall be designed to detect and evaluate impacts associated with the sodium lactate injection activities. The pilot studies will be conducted at two selected areas of the site. Each pilot test area shall have its own monitoring program. The Discharger shall conduct regular monitoring and sampling with the required frequencies from all monitoring wells at each pilot test area for the specified parameters.

<u>Pilot Test No. 2 Area</u>: The following shall constitute the monitoring program for up-gradient well MW-6, injection well MW-5, application area wells PZ5-1 and PZ5-2, and down-gradient well EW-1 as shown in Figure 1:

		1	
CONSTITUENT/PARAMETER	<u>UNITS</u>	TYPE OF	MINIMUM FREQUENCY OF
		SAMPLE	MONITORING AND ANALYSIS
Chlorinated Volatile Organic Compounds	па/Т	grah	Quartarly
	μg/L	grab	Quarterly
(EPA Method 8260B)	/1	1-	On a set a silve
Total Organic Carbon	μg/L	grab	Quarterly
Total Dissolved Solids	mg/L	grab	Quarterly
	~	_	
Major Anions (bromide, chloride, sulfate,	mg/L	grab	Quarterly
nitrate, nitrite, and o-phosphate, and sulfide)			
Major Cations (Calcium, magnesium,	mg/L	grab	Quarterly
potassium, sodium)			
Ferrous Iron	μg/L	grab	Quarterly
Alkalinity	mg/L	grab	Quarterly
Total Chromium and Hexavalent	μg/L	grab	Quarterly
Chromium			- •
Metabolic Acids (acetic, propionic,	μg/L	grab	Quarterly
pyruvic, butyric and lactic)	, ,		- •
Methane, ethane and ethene	μg/L	grab	Quarterly
Oxidation-Reduction Potential	Millivolts	grab	Quarterly
Dissolved Oxygen	mg/L	grab	Quarterly
76	8	8	Ç y
Groundwater Elevation	Feet (bgs/msl)	In situ	Quarterly
Temperature	°F/°C	grab	Quarterly
Specific Conductivity	μmhos/cm	grab	Quarterly
Turbidity	NTU	grab	Quarterly

<u>Pilot Test No. 3 Area</u>: The following shall constitute the monitoring program for up-gradient well MW-6\*\*, injection well MW-15, application area well OW-3, and down-gradient well OW-4 as shown in Figure 1:

CONSTITUENT/PARAMETER	<u>UNITS</u>	TYPE OF SAMPLE	MINIMUM FREQUENCY OF MONITORING AND ANALYSIS
Chlorinated Volatile Organic Compounds (EPA Method 8260B)	μg/L	grab	Bimonthly
Total Organic Carbon	μg/L	grab	Bimonthly
Total Dissolved Solids	mg/L	grab	Bimonthly
Major Anions (bromide, chloride, sulfate, nitrate, nitrite, and o-phosphate, and sulfide)	mg/L	grab	Bimonthly
Major Cations (Calcium, magnesium, potassium, sodium)	mg/L	grab	Bimonthly
Ferrous Iron	μg/L	grab	Bimonthly
Alkalinity	mg/L	grab	Bimonthly
Total Chromium and Hexavalent Chromium	μg/L	grab	Bimonthly
Metabolic Acids (acetic, propionic, pyruvic, butyric and lactic)	μg/L	grab	Bimonthly
Methane, ethane and ethene	μg/L	grab	Bimonthly
Oxidation-Reduction Potential	Millivolts	grab	Bimonthly
Dissolved Oxygen	Mg/L	grab	Bimonthly
Groundwater Elevation	Feet (bgs/msl)	In situ	Bimonthly
Temperature	°F/°C	grab	Bimonthly
Specific Conductivity	μmhos/cm	grab	Bimonthly
Turbidity	NTU	grab	Bimonthly

<sup>\*\*</sup>Well MW-6 can be monitored and sampled quarterly since it is utilized as an up-gradient well for both of the pilot test 2 and 3 areas.

File No. 97-019

#### III. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 a fine and imprisonment.

Executed on the	day of	at	
			(Signature)
			(Title)"

## V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by:		Date: December 30, 2005
	Jonathan Bishop Executive Officer	