

ERRATA SHEET

TENTATIVE ORDER NO R9-2008-0082 NPDES NO. CA0109193

WASTE DISCHARGE REQUIREMENTS FOR GENENTECH, INC.

The following changes have been made to tentative Order No. R9-2008-0082. Some changes/corrections below are shown in **bold and underline**/~~strikeout~~ format to indicate added and removed language, respectively.

Errata #	SECTION	REVISION																																																																									
1.	Section II.H of tentative Order	<p>The third paragraph will be modified as follows:</p> <p>The State Water Board adopted the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Water and Enclosed Bays and Estuaries of California (Thermal Plan) on May 18, 1972, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface <u>coastal</u> waters.</p>																																																																									
2.	Section V.A of tentative Order	<p>Table 7 shall be revised as follows:</p> <p>Table 7. Effluent Limitations Based on Table A of the Ocean Plan</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th rowspan="2" style="width: 25%;">Parameter</th> <th rowspan="2" style="width: 15%;">Units</th> <th colspan="5" style="text-align: center;">Effluent Limitations</th> </tr> <tr> <th style="text-align: center;">Average Monthly</th> <th style="text-align: center;">Average Weekly</th> <th style="text-align: center;">Maximum Daily</th> <th style="text-align: center;">Instantaneous Minimum</th> <th style="text-align: center;">Instantaneous Maximum</th> </tr> </thead> <tbody> <tr> <td>Flow</td> <td style="text-align: center;">MGD</td> <td></td> <td></td> <td style="text-align: center;">0.155</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Oil and Grease</td> <td style="text-align: center;">mg/L</td> <td style="text-align: center;">25</td> <td style="text-align: center;">40</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">75</td> </tr> <tr> <td style="text-align: center;">lbs/day¹</td> <td style="text-align: center;">32</td> <td style="text-align: center;">52</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">97</td> </tr> <tr> <td rowspan="2">Total Suspended Solids</td> <td style="text-align: center;">mg/L</td> <td style="text-align: center;">30</td> <td style="text-align: center;">--</td> <td style="text-align: center;">50</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td style="text-align: center;">lbs/day¹</td> <td style="text-align: center;">39</td> <td style="text-align: center;">--</td> <td style="text-align: center;">65</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Settleable Solids</td> <td style="text-align: center;">ml/L</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.5</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">3.0</td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;">NTU</td> <td style="text-align: center;">75</td> <td style="text-align: center;">100</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">225</td> </tr> <tr> <td>pH</td> <td style="text-align: center;">standard units</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">6.0</td> <td style="text-align: center;">9.0</td> </tr> <tr> <td>Temperature</td> <td style="text-align: center;">F</td> <td colspan="5" style="text-align: center;">Not more than 20° F greater than natural temperature of receiving waters</td> </tr> </tbody> </table>	Parameter	Units	Effluent Limitations					Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Flow	MGD			0.155			Oil and Grease	mg/L	25	40	--	--	75	lbs/day ¹	32	52	--	--	97	Total Suspended Solids	mg/L	30	--	50	--	--	lbs/day ¹	39	--	65	--	--	Settleable Solids	ml/L	1.0	1.5	--	--	3.0	Turbidity	NTU	75	100	--	--	225	pH	standard units	--	--	--	6.0	9.0	Temperature	F	Not more than 20° F greater than natural temperature of receiving waters				
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3.	Section V of tentative	<p>Unless specifically excepted by this Order, t<u>I</u>he discharge, by itself or jointly with any other discharge(s), shall not cause violation of the numerical water quality objectives established in Chapter II, Table B of the Ocean Plan. and</p>																																																																									

Supporting Document No. 7

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	Order	<u>The discharge, by itself or jointly with any other discharge(s)</u> , shall not cause a violation of the following <u>applicable</u> water quality objectives <u>contained in the Basin Plan, Ocean Plan, and Thermal Plan</u> . Compliance with these objectives shall be determined by samples collected at stations																				
4.	Section V.A of tentative Order	The following text will be revised as follows: Receiving water limitations are based on water quality objectives contained in the Basin Plan and Ocean Plan and are a required part of this Order. The discharge shall not cause the following in the Pacific Ocean.																				
5.	Section V.A of tentative Order	The following text will be added as Number 6: <u>6. Elevated Temperature Requirements (Thermal Plan)</u> <u>a Elevated temperature wastes shall be discharged to the open ocean away from the shoreline to achieve dispersion through the vertical water column.</u> <u>b Elevated temperature wastes shall be discharged a sufficient distance from areas of special biological significance to assure the maintenance of natural temperature in these areas.</u> <u>c The discharge of elevated temperature wastes shall not result in increases in the natural water temperature exceeding 4°F at (a) the shoreline, (b) the surface of any ocean substrate, or (c) the ocean surface beyond 1,000 feet from the discharge system. The surface temperature limitation shall be maintained at least 50 percent of the duration of any complete tidal cycle.</u>																				
6.	Section VI.A.2.i	This Order expires on November 1, 2013 <u>January 1, 2014</u> , after which, the terms and conditions of this permit are automatically continued pending issuance of a new permit, provided that all requirements of USEPA's NPDES regulations at 40 CFR 122.6 and the State's regulations at CCR Title 23, Section 2235.4 regarding the continuation of expired permits and waste discharge requirements are met.																				
7.	Section VI. C.2	The additional toxicity tests will be incorporated into the monthly <u>semiannual</u> discharge monitoring report within one month after the completion of the accelerated monitoring and submitted to the Regional Water Board pursuant to Attachment E.																				
8.	Section VIII.A.1 of Monitoring and Reporting Program	Table E-8 shall be modified as follows: Table E-8- 5. Off Shore Water Quality Intensive Monitoring Requirements <table border="1"> <thead> <tr> <th><u>Determination Parameter</u></th> <th>Units</th> <th>Type of Sample</th> <th>Minimum Frequency</th> </tr> </thead> <tbody> <tr> <td>Visual Observations</td> <td>-</td> <td>-</td> <td>monthly</td> </tr> <tr> <td>Dissolved Oxygen</td> <td>mg/L</td> <td>Grab¹</td> <td>monthly</td> </tr> <tr> <td>Light Transmittance</td> <td>percent</td> <td>Instrument¹</td> <td>monthly</td> </tr> <tr> <td>pH</td> <td>pH units</td> <td>Grab²</td> <td>monthly</td> </tr> </tbody> </table>	<u>Determination Parameter</u>	Units	Type of Sample	Minimum Frequency	Visual Observations	-	-	monthly	Dissolved Oxygen	mg/L	Grab ¹	monthly	Light Transmittance	percent	Instrument ¹	monthly	pH	pH units	Grab ²	monthly
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		<u>Temperature</u>	<u>°F</u>	<u>Instrument³</u>	<u>monthly</u>																												
9.	Section IX.A.1 of Monitoring and Reporting Program	<p style="text-align: center;"><u>3. 1-meter intervals, surface to bottom</u></p> <p>All other tables will be re-numbered accordingly.</p> <p style="text-align: center;">Table E-9. Sediment Monitoring Requirements</p> <table border="1" data-bbox="688 472 1753 800"> <thead> <tr> <th data-bbox="688 472 1035 545">Determination Parameter</th> <th data-bbox="1035 472 1312 545">Units</th> <th data-bbox="1312 472 1516 545">Type of Sample</th> <th data-bbox="1516 472 1753 545">Minimum Frequency</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 545 1035 583">Particle Size Distribution</td> <td data-bbox="1035 545 1312 583">mg/kg</td> <td data-bbox="1312 545 1516 583">core</td> <td data-bbox="1516 545 1753 583">Semi-annual</td> </tr> <tr> <td data-bbox="688 583 1035 620">Arsenic, Total Recoverable</td> <td data-bbox="1035 583 1312 620">mg/kg</td> <td data-bbox="1312 583 1516 620">core</td> <td data-bbox="1516 583 1753 620">Annual</td> </tr> <tr> <td data-bbox="688 620 1035 683">Chromium, Total Recoverable</td> <td data-bbox="1035 620 1312 683">mg/kg</td> <td data-bbox="1312 620 1516 683">core</td> <td data-bbox="1516 620 1753 683">Annual</td> </tr> <tr> <td data-bbox="688 683 1035 721">Copper, Total Recoverable</td> <td data-bbox="1035 683 1312 721">mg/kg</td> <td data-bbox="1312 683 1516 721">core</td> <td data-bbox="1516 683 1753 721">Annual</td> </tr> <tr> <td data-bbox="688 721 1035 758">Nickel, Total Recoverable</td> <td data-bbox="1035 721 1312 758">mg/kg</td> <td data-bbox="1312 721 1516 758">core</td> <td data-bbox="1516 721 1753 758">Annual</td> </tr> <tr> <td data-bbox="688 758 1035 800">Zinc, Total Recoverable</td> <td data-bbox="1035 758 1312 800">mg/kg</td> <td data-bbox="1312 758 1516 800">core</td> <td data-bbox="1516 758 1753 800">Annual</td> </tr> </tbody> </table>				Determination Parameter	Units	Type of Sample	Minimum Frequency	Particle Size Distribution	mg/kg	core	Semi-annual	Arsenic, Total Recoverable	mg/kg	core	Annual	Chromium, Total Recoverable	mg/kg	core	Annual	Copper, Total Recoverable	mg/kg	core	Annual	Nickel, Total Recoverable	mg/kg	core	Annual	Zinc, Total Recoverable	mg/kg	core	Annual
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12.	Section X.B.3 of Monitoring and Reporting Program	<p>Table E-12. Monitoring Periods and Reporting Schedule</p> <table border="1"> <thead> <tr> <th data-bbox="550 298 724 367">Sampling Frequency</th> <th data-bbox="724 298 1192 367">Monitoring Period Begins On...</th> <th data-bbox="1192 298 1646 367">Monitoring Period</th> <th data-bbox="1646 298 1890 367">SMR Due Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="550 367 724 435">Continuous</td> <td data-bbox="724 367 1192 435">Permit effective date</td> <td data-bbox="1192 367 1646 435">All</td> <td data-bbox="1646 367 1890 435">Submit with semi-annual SMR</td> </tr> <tr> <td data-bbox="550 435 724 503">Monthly</td> <td data-bbox="724 435 1192 503">November 1, 2008 January 1, 2009</td> <td data-bbox="1192 435 1646 503">First day of calendar month through last day of calendar month</td> <td data-bbox="1646 435 1890 503">Submit with semi-annual SMR</td> </tr> <tr> <td data-bbox="550 503 724 571">Semi-annually</td> <td data-bbox="724 503 1192 571">Closest of January 1 or July 1 following (or on) permit effective date</td> <td data-bbox="1192 503 1646 571">January 1 through June 30 July 1 through December 31</td> <td data-bbox="1646 503 1890 571">August 1 February 1</td> </tr> <tr> <td data-bbox="550 571 724 639">Annually</td> <td data-bbox="724 571 1192 639">January 1 following (or on) permit effective date</td> <td data-bbox="1192 571 1646 639">January 1 through December 31</td> <td data-bbox="1646 571 1890 639">February 1</td> </tr> </tbody> </table>	Sampling Frequency	Monitoring Period Begins On...	Monitoring Period	SMR Due Date	Continuous	Permit effective date	All	Submit with semi-annual SMR	Monthly	November 1, 2008 January 1, 2009	First day of calendar month through last day of calendar month	Submit with semi-annual SMR	Semi-annually	Closest of January 1 or July 1 following (or on) permit effective date	January 1 through June 30 July 1 through December 31	August 1 February 1	Annually	January 1 following (or on) permit effective date	January 1 through December 31	February 1
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13.	Section II.A.2 of Fact Sheet	<p>2. Pretreatment of Water for Injection</p> <p>The sources of wastewater generated from the Water for Injection (WFI) pretreatment system include backwashing and rinsing of the simplex carbon filter and softener units serving the WFI pretreatment train and from the regeneration of the softener resin with a concentrated brine solution. The wastewater flow from the WFI includes 9,500 GPD from the softening units and 2,250 GPD from the carbon filters. The total wastewater flow from the WFI pretreatment process is 10,000- 24,000 GPD. The pollutants contained in the brine generated from the WFI pretreatment system are similar to those found in the brine from the primary City water treatment system. The pollutants include sodium, calcium, magnesium, and other salts. A small amount of sulfuric acid (20% solution) phosphoric acid is added to one of the simplex softener units associated with the WFI. The acid is used to maintain the pH of the softener effluent in the 7 to 8.3 range. This range of pH will ensure proper functioning of the WFI vapor compression stills.</p>																				
14.	Section II.A.5 of Fact Sheet	<p>5. Combined Brine Wastewater Equalization and pH Control</p> <p>Combined wastewater gravity drains to a 3,000 gallon lift station. This station has four different liquid sensors that control the system. At 1,200 gallons, the wastewater is pumped into one of two 20,000 gallon holding tanks. In these holding tanks equalization is achieved via comingling. Once one of the 20,000 gallon equalization tanks reaches 15,000 gallons, a valve is closed and the other tank begins to fill. Each tank has a mixer. The mixers move the wastewater through the pH adjustment skid where the pH is monitored. As the wastewater is routed to the adjustment skid, sensors assess the pH. If the wastewater is outside of the 6.0 – 9.0 s.u. range, sulfuric acid phosphoric acid or</p>																				

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		sodium hydroxide is added to adjust the pH up or down respectively. Once the pH has been adjusted, the wastewater is re-routed back to the 20,000 gallon equalization tank for further comingling. The pH is continuously checked.
15.	Section IV.C.2.b of Fact Sheet	An RPA was conducted for the Facility's discharges to the OOO using all the available data from December 2004-December 2007, for a total of eight sampling events.
16.	Section IV.C.2 of Fact Sheet	The following will be added as section c: <u>c. The Thermal Plan establishes water quality objectives for discharges of Thermal and Elevated Temperature Waste to Coastal and Interstate Waters and Enclosed Bays and Estuaries. Thermal waste is defined as "Cooling water and industrial process water used for the purpose of transporting heat." Elevated temperature waste is defines as "Liquid, solid, or gaseous material including thermal waste discharge at a temperature higher than the natural temperature of receiving water. Irrigation return water is not considered elevated temperature waste for the purpose of this plan."</u>
17.	Section IV.C.4.a of Fact Sheet	The following text will be revised as follows: a. Vapor compression still blowdown, boiler blowdown , and clean steam generator test flows are considered new discharges of elevated temperature wastes. <u>Order No. R9-2003-010 incorrectly contained an effluent limitation of "Not more than 20° F greater than natural temperature of receiving waters", which is a requirement for Thermal Waste and does not apply to this facility. The effluent limitation for temperature from Order No. R9-2003-010 is being removed and the applicable receiving water limitations for elevated temperature wastes are incorporated.</u> The specific water quality objective for enclosed bays <u>elevated temperature waste to coastal waters</u> for new discharges contained in the Thermal Plan states that "elevated temperature waste discharges shall comply with limitations necessary to assure protection of beneficial uses. The maximum temperature of waste discharges shall not exceed the natural temperature of the receiving waters by more than 20°F." <u>"elevated temperature wastes shall not result in increases in the natural water temperature exceeding 4°F at (a) the shoreline, (b) the surface of any ocean substrate, or (c) the ocean surface beyond 1,000 feet from the discharge system. The surface temperature limitation shall be maintained at least 50 percent of the duration of any complete tidal cycle."</u> This water quality objective is established as a WQBEL for discharges of compression still blowdown, boiler blowdown , and clean steam generator test flows from Discharge Point No. 001 and is based on the requirements of the Thermal Plan.
18.	Section IV.D.3 of Fact Sheet	The following text will be revised as follows: The Effluent limitation for chronic toxicity in this Order is less stringent than the limitation in Order No. R9-2003-0140. As described in Section IV.C.2.b, the Regional Water Board recalculated the initial dilution of the OOO using the USEPA approved computer modeling application Visual Plumes with the UM3 model. The new initial dilution is 87, compared to the previous value of 80. In accordance with the effluent limit calculations prescribed in the Ocean Plan, the higher initial dilution value results in less stringent calculated effluent limitations. However, the higher effluent limitations are based on identical values in Table B of the Ocean Plan and are the result of more dilution being

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		<p>available at the OOO discharge point, not a reduction in water quality. Therefore, the effluent limitations in this Order meet State and federal anti-backsliding requirements.</p> <p><u>The Effluent limitation for temperature has been removed. The temperature limitations contained in Order No. R9-2003-0140 applied to thermal waste and were not appropriate for this facility. 40 CFR 122.44(I)((B)(2) allows less stringent limitations in cases in which the Administrator determines that technical mistakes or misinterpretations of the law were made in issuing the permit. This Order has been revised to contain the applicable receiving water limitations for elevated temperature waste.</u></p>																																																																																
19.	Section IV.D.1 of Fact Sheet	<p>Table F-12. Summary of Effluent Limitations for Discharge Point No. 001</p> <table border="1" data-bbox="535 565 1900 979"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Units</th> <th colspan="5">Effluent Limitations</th> </tr> <tr> <th>Average Monthly</th> <th>Average Weekly</th> <th>Maximum Daily</th> <th>Instantaneous Minimum</th> <th>Instantaneous Maximum</th> </tr> </thead> <tbody> <tr> <td>Flow</td> <td>MGD</td> <td></td> <td></td> <td>0.155</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Oil and Grease</td> <td>mg/L</td> <td>25</td> <td>40</td> <td>--</td> <td>--</td> <td>75</td> </tr> <tr> <td>lbs/day¹</td> <td>32</td> <td>52</td> <td>--</td> <td>--</td> <td>97</td> </tr> <tr> <td>pH</td> <td>pH units</td> <td>--</td> <td>--</td> <td>--</td> <td>6.0</td> <td>9.0</td> </tr> <tr> <td>Chronic Toxicity</td> <td>TUc</td> <td>--</td> <td>--</td> <td>88</td> <td>--</td> <td>--</td> </tr> <tr> <td>Settleable Solids</td> <td>ml/L</td> <td>1.0</td> <td>1.5</td> <td>--</td> <td>--</td> <td>3.0</td> </tr> <tr> <td>Temperature</td> <td>°F</td> <td colspan="5">Not more than 20° F greater than natural temperature of receiving waters</td> </tr> <tr> <td rowspan="2">Total Suspended Solids</td> <td>mg/L</td> <td>30</td> <td>--</td> <td>50</td> <td>--</td> <td>--</td> </tr> <tr> <td>lbs/day¹</td> <td>39</td> <td>--</td> <td>65</td> <td>--</td> <td>--</td> </tr> <tr> <td>Turbidity</td> <td>NTU</td> <td>75</td> <td>100</td> <td>--</td> <td>--</td> <td>225</td> </tr> </tbody> </table>	Parameter	Units	Effluent Limitations					Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Flow	MGD			0.155			Oil and Grease	mg/L	25	40	--	--	75	lbs/day ¹	32	52	--	--	97	pH	pH units	--	--	--	6.0	9.0	Chronic Toxicity	TUc	--	--	88	--	--	Settleable Solids	ml/L	1.0	1.5	--	--	3.0	Temperature	°F	Not more than 20° F greater than natural temperature of receiving waters					Total Suspended Solids	mg/L	30	--	50	--	--	lbs/day ¹	39	--	65	--	--	Turbidity	NTU	75	100	--	--	225
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20.	Section V.A of Fact Sheet	<p>Receiving water limitations in this Order are derived from the water quality objectives for ocean waters established by the Basin Plan and the Ocean Plan, <u>and the Thermal Plan.</u></p>																																																																																
21.	Section VI.B.3 of Fact Sheet	<p>Semi-annual monitoring for all constituents having effluent limitations has been retained from Order No. R9-2003-0140 in order to determine compliance with effluent limitations. These constituents are acute toxicity, chronic toxicity, oil & grease, pH, settleable solids, temperature, total suspended solids, and turbidity.</p>																																																																																

ERRATA SHEET
TENTATIVE ORDER NO R9-2008-0082 NPDES NO. CA0109193

Errata #	SECTION	REVISION
22.	Tentative Order (global)	Other typographical errors and other minor corrections to the wording in the tentative Order have been or will be made prior to sending out the final version.