ATTACHMENT B - NOTICE OF INTENT APPLICATION FORM
To Receive

Authorization to Discharge or Reuse of Extracted Brackish Groundwater and Reverse Osmosis Concentrate Resulting from Treatment of Groundwater by Reverse Osmosis and Discharge or Reuse of Extracted and Treated Groundwater Resulting from Structural Dewatering

under the Requirements of

ORDER NO. R2-2007-0033, NPDES Permit No. CAG912004

For Groundwater Discharge Facility located at:

_____

Type or Print Facility Address above the line

File No: 1210.60

This is an application to receive authorization to discharge wastewater as described below in Table 1:

Table 1. Mark Applicable Discharge Category

Category	Notice of Intent for:	
Category 1	Aquifer protection and salinity barrier well discharges	
Category 2	RO concentrate from aquifer protection well discharges	
Category 3	Structural dewatering discharges greater than 10,000 gallons per day and requiring treatment. Treatment is required where a physical, biological, or chemical treatment process is necessary in order for the structural dewatering discharge to comply with the prohibitions and limitations of this order	

Discharger's Certification

I certify under penalty of law that this document and all attachments are 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 fine and imprisonment.

_____ _____

Name (print) Signature and Date

_____ _____

Title/Organization Address

Complete Table 2. Facility Information

1	Discharger's Name	
2	Name of Facility	
3	Facility Address	
4	Facility Contact, Title, and Phone	
5	Authorized Person to Sign & Submit Reports	
6	Mailing Address	
7	Billing Address	
8	Brief description and purpose of discharge	
9	Watershed (Please note that Watershed may have a different name than receiving water)[1]	
10	Receiving Water	
11	Receiving Water Type. For example, enclosed bay, estuary, inland surface water, or Sacramento-San Joaquin Delta	

[1] **If you do not know in which watershed your project is located, you may check web sites such as "San Francisco Bay Area Creek & Watershed Finder", at http://www.museumca.org/creeks/resc.html.**

I understand that if this discharge is eligible under the requirements of Order No. R2-2007-0033 (Order), authorization to discharge extracted or extracted and treated groundwater from the above facility will be granted providing the following conditions are met:

1. I must comply with all applicable requirements of the Order and the associated Self-Monitoring Program (SMP). The effluent shall not contain constituents in excess of the effluent limits in this Order.

2. A system including the elements described in Table 3 below and the schematic shown in Attachment 1 will be used for this discharge.

Complete Table 3. Treatment System and/or Best Management Practices (BMP) Description

	Unit	Number	Further Description (such as size, capacity, location, and function),
1	Extraction Well(s)		
2	Extraction Wells with Dedicated Treatment Unit(s)		
3	Dedicated Treatment Unit(s)		
4	Settling Tank(s) in series		
5	Settling Tank(s) in parallel		
6	Oil/Water Separator(s)		
7	Filter(s)		
8	Air Strippers with Air Filters		
9	Air Strippers without Air Filters		
10	Oxygenation Treatment Unit(s)		
11	Advanced Treatment Unit(s)		
12	Liquid-phase Granular Activated Carbon (GAC) vessel(s) in series		
13	GAC vessel(s) in parallel		
14	Dechlorination Unit (applies to the Dischargers that chlorinate their well water).		
15	Effluent reuse Infrastructure (If so, provide additional detail)		
16	Effluent land discharge Infrastructure (If so, provide additional detail)		
17	Energy Dissipater System		
18	Other Treatment Systems		
21	Other BMPs (e.g. range of the RO facility blending ratio)		
22	Bay edge Groundwater Dewatering for Landfills dischargers shall provide full description that the Groundwater Dewatering facility is completely separate from the landfill leachate collection system.		

3. Attachment 2 is a report certifying the adequacy of each component of the proposed system, and including the table of contents of the associated Operation and Maintenance (O&M) Manual. This certification report contains an item-by-item analysis, based on accepted engineering practice, of how the process and physical design of the system will ensure compliance with the Order. This report also certifies that:

   i. All facility startup and operation instruction manuals are adequate and available to operating personnel.

   ii. Adequate facility maintenance and testing schedules are included in the facility O&M Manual.

   iii. Influent and effluent sampling locations or ports are located in areas where samples representative of the waste stream to be monitored can be obtained.

   iv. The residual concentration of any chemical additive or additives used in the process is designed to be zero and will never exceed the No Adverse Effect Concentration (NOEC) as documented in the ecological section of the applicable Material Safety Data Sheet (MSDS). A copy of the MSDS for every chemical used is provided as an attachment in the O&M Manual.

   v. If any chemical used in the treatment process may cause pH variances in the effluent, the frequency of pH monitoring in the effluent shall be increased to be more frequent than the frequency as explained in the Tables E-2 through E-5 of Attachment E – Monitoring and Reporting Program and as required by the O&M Manual.

   vi. The design engineer has affixed his/her signature and engineering license number to this certification report in Attachment 2.

Complete Table 4. Responsible Party(ies) and Other Information

1	Design Engineer's Name, California License Number, Address, and Phone Number	
2	Operation and Maintenance Responsible Party Name (If applicable, Engineer's California License Number), Address, and Phone Number	

4. The maximum discharge rate of effluent shall not exceed _____ million gallons per day (MGD). The system is designed for _____ MGD. I understand this discharge shall not cause pollution, contamination, or nuisance. For

example, the discharge shall cause no scouring or erosion at the point where the storm drain or outfall-pipe discharges into the receiving water(s).

5. The effluent will be discharged (directly or via a storm drain) to the receiving water(s) described in Table 5 below and shown on the aerial map in Attachment 3.

Complete Table 5. Discharge and Discharge Monitoring Locations

Discharge Point Location	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
Influent Monitoring Point(s)			
Effluent Monitoring Point			
Storm Drain Location (if applicable):			Storm Drain (if applicable)
Outfall Location: Include the distance between the outfall and the Bay or a lake here: _____Mile			
Upstream Receiving Water Monitoring Location (RSW-001U)			At a point 50 feet upstream from the point of discharge into the receiving water, or if access is limited, at the first point upstream which is accessible.
Downstream Receiving Water Monitoring Location (RSW-001D)			At a point 50 feet downstream from the point of discharge into the receiving water, or if access is limited, at the first point downstream which is accessible.

6. A copy of the Order, a complete copy of this Notice of Intent, documentation of the authorization to discharge received from the Regional Water Board, a full copy of the O&M Manual, and any other documents recommended by the design engineer shall be stored at or near the facility. These documents shall be made available to Regional Water Board staff during inspections. No O&M Manual shall be submitted to the Regional Water Board office, unless requested.

7. Self-Monitoring Reports shall be submitted on a quarterly calendar basis, no later than 45 days following the last day of the quarter. The laboratory results shall be summarized in tabular form, but the laboratory data sheets need not be included in the reports (unless requested). The reports shall summarize the monitoring data and include information such as the sample location (extraction well(s), influent, effluent, or receiving water); the constituents analyzed; the analytical methods used; the laboratory reporting levels in micrograms per liter (ug/l); the sample results (ug/l); the date sampled; and the date samples were analyzed. A summary of quality assurance/quality control data such as field, trip, and laboratory blank results shall be reported for each analyzed constituent or group of constituents. These reports shall also include a description of the operation and maintenance of the groundwater extraction and treatment system. An annual report summarizing system operation and maintenance for the last four quarters shall be prepared and submitted no later than February 15 of the following year. The last calendar quarter monitoring report may be combined with the annual report. The annual report shall document that the annual fee has been paid.

8. I understand that it is the responsibility of any person proposing to discharge to a storm drain system or other watercourses to obtain authorization to discharge from the agency having jurisdiction over the use of the storm drain system or watercourse. I also understand any discharge authorization granted by the Regional Water Board is conditional and may be terminated at any time after notice and opportunity for a public hearing pursuant to General Permit Special Provision C.4).

9. Table 6 lists the sampling results for each influent or projected influent, and effluent or projected effluent (as applicable). If you have two or more substantially identical outfalls, you may request to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted, on a separate sheet attached to the application form, identify which outfall you did test, and describe why the outfalls that you did not test are substantially identical to the outfall that you did test. Unless requested, no laboratory reports have been included in this NOI. Of the constituents listed below in Table 6, Structural Dewatering Dischargers shall provide monitoring data for the subset of constituents for which they have evidence may be present in the extracted groundwater. This subset of constituents is the same for which the Discharger will install treatment system(s), pursuant to this permit.

Table 6. Expected Compounds or Constituents in the Discharge

Compound	CAS Number	Maximum Levels of Pollutants expected in the influent (note the unit unless the unit is microgram per liter)	Maximum Levels of Pollutants expected in the effluent (note the unit unless the unit is microgram per liter)
Chlorine Residue (applies to Dischargers that chlorinate their well water)			
pH (please include both maximum and minimum)			

Compound	CAS Number	Maximum Levels of Pollutants expected in the influent (note the unit unless the unit is microgram per liter)	Maximum Levels of Pollutants expected in the effluent (note the unit unless the unit is microgram per liter)
Acute Whole Effluent Toxicity (Species used and percent survival)			
Turbidity (Units)			
Total Dissolved Solids (TDS)			
Conductivity (mmhoms/cm)			
Chloride			
Antimony	7440360		
Arsenic	7440382		
Beryllium	7440417		
Cadmium	7440439		
Chromium (total)	18540299		
Chromium (VI)	18540299		
Copper	7440508		
Lead	7439921		
Mercury	7439976		
Nickel	7440020		
Selenium	7782492		
Silver	7440224		
Thallium	7440280		
Zinc	7440666		
Cyanide	57125		
Asbestos	1332214		
2,3,7,8-TCDD (Dioxin)	1746016		
Acrylonitrile	107131		
Bromoform	75252		
Chlorodibromomethane	124481		
Dichlorobromomethane	75274		
1,2-Dichloropropane	78875		
1,3-Dichloropropylene	542756		
1,1,2,2-Tetrachloroethane	79345		
Pentachlorophenol	87865		
2,4,6-Trichlorophenol	88062		
Benzidine	92875		
Benzo(a)Anthracene	56553		
Benzo(a)Pyrene	50328		
Benzo(b)Fluoranthene	205992		
Benzo(k)Fluoranthene	207089		
Bis(2-Chloroethyl)Ether	111444		
Bis(2-Ethylhexyl)Phthalate	117817		
Chrysene	218019		
Dibenzo(a,h)Anthracene	53703		
3,3'-Dichlorobenzidine	91941		

Compound	CAS Number	Maximum Levels of Pollutants expected in the influent (note the unit unless the unit is microgram per liter)	Maximum Levels of Pollutants expected in the effluent (note the unit unless the unit is microgram per liter)
2,4-Dinitrololuene	121142		
1,2-Diphenylhydrazine	122667		
Hexachlorobenzene	118741		
Hexachlorobutadiene	87683		
Hexachloroethane	67721		
Indeno(1,2,3-cd)Pyrene	193395		
N-Nitrosodimethylamine	62759		
N-Nitrosodi-n-Propylamine	621647		
Aldrin	309002		
alpha-BHC	319846		
beta-BHC	319857		
gamma-BHC	58899		
Chlordane	57749		
4,4'-DDT	50293		
4,4'-DDE	72559		
4,4'-DDD	72548		
Dieldrin	60571		
alpha-Endosulfan	959988		
beta-Endosulfan	33213659		
Endrin	72208		
Endrin Aldehyde	7421934		
Heptachlor	76448		
Heptachlor Epoxide	1024573		
Polychlorinated biphenyls (PCBs) total	1336363		
Toxaphene	8001352		
Turbidity (Units)			
Odor-Threshold (Units)			
Sulfate			
Constituents Below are Only Applicable to Discharges to Freshwaters with Municipal and Domestic Supply and Related Beneficial Uses			
Foaming Agents			
Color (Units)			
Aluminum			
Boron			
Cobalt			
Fluoride			
Iron			
Lithium			
Manganese			
Molybdenum			
Nitrate (as NO3)			

Compound	CAS Number	Maximum Levels of Pollutants expected in the influent (note the unit unless the unit is microgram per liter)	Maximum Levels of Pollutants expected in the effluent (note the unit unless the unit is microgram per liter)
Nitrate + Nitrite (as N) NO3 + NO2 (as N)			
Nitrite (as N)			
Vanadium			
Combined Radium-226 and Radium-228 (IN pCi/l)			
Gross Alpha Particle (includes Radium-226 but excludes Radon and Uranium) (IN pCi/l)			
Tritium (IN pCi/l)			
Strontium-90 (IN pCi/l)			
Gross Beta Particle Activity (IN pCi/l)			
Uranium (IN pCi/l)			
Fuels Related Pollutants, please apply for NPDES No. CAG912002			
Solvents Related Pollutants, please apply for NPDES No. CAG912003.			
Other Pollutants not listed above but there is evidence to be present in the influent and/or effluent			

Legend: CAS = Chemical Abstract System

10. Any other relevant information about this project that may be necessary to evaluate the eligibility of this discharge under the Order is included in Attachment 5.

11. Mark as applicable:
_____A Check for $ 5,688 is attached (This discharge requires a treatment system to meet priority toxic pollutant limits and that could impair beneficial uses if limits are violated);
_____ A Check for $ 3,437 is attached (This Discharge requires a treatment system to meet non-priority pollutant limits, but are not expected to impair beneficial uses if limits are violated. Examples of non-priority pollutants include, but are not limited to, nutrients, inorganic compounds, pH, and temperature); or,
_____ A Check for $ 1,185 is attached (This Discharge requires minimal or no treatment system to meet limits and pose no significant threat to water quality).

12. Add the following five attachments to this form:
Attachment 1: Flow Schematics
Attachment 2: Engineering Certification Report
Attachment 3: Aerial Map (highlight the discharge path)
Attachment 4: Check for $_____
Attachment 5: Other Information

Note: The Regional Water Board may modify this form at any time to reflect any new fees and other needed improvements as applicable.