FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: 7-ELEVEN, INC.
P.O. BOX 711 (LOC. 0148)
DALLAS, TX - 752210711

Permit Number: NV0023221

Location: 7-ELEVEN STORE NO. 27607, CLARK
600 NORTH LAS VEGAS BLVD, LAS VEGAS, NV - 89101
LATITUDE: 36.175075, LONGITUDE: -115.136619
TOWNSHIP: 20 S, RANGE: 61 E, SECTION: 27

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
01A	THE TOTALIZING FLOW METER ON THE EFFLUENT LINE	Internal Outfall		LAS VEGAS	NV	89101	CLARK	36.175075	-115.136619	LAS VEGAS WASH
01B	SAMPLE PORT JUST BEFORE AIR STRIPPER OR FINAL CARBON CANISTER	Internal Outfall		LAS VEGAS	NV	89101	CLARK	36.175075	-115.136619	LAS VEGAS WASH

General:
The Permittee has applied for a National Pollutant Discharge Elimination System (NPDES) permit to continue to discharge treated groundwater from 7-Eleven Store No. 27607, a self-service fueling station/convenience store, to the Las Vegas Wash via the stormdrain system. An NPDES permit for this discharge was first issued in December 2002 and reissued in 2008.

The facility is located at 600 North Las Vegas Blvd., at the intersection of Bonanza Road and North Las Vegas Blvd., Las Vegas, Nevada. Shallow groundwater at the facility is contaminated with petroleum hydrocarbons due to a gasoline release from an underground storage tank and/or piping installed for the retail sale of fuel. On October 5, 2009, the Permittee ceased all system operations for the purpose of reevaluating of the remediation site. No discharge has occurred since this shut down while the Permitttee continues to work on the reevaluation the remediation site. The current treatment system is comprised of extraction wells, air/liquid separation, oil/water separation, air stripping, and carbon adsorption.

Discharge Characteristics:
When discharging, the treated groundwater is of good quality. Over the previous 5-year permit cycle, the Permittee only exceeded permit limits once (TPH - 20 mg/L); however, as per NDEP recommendation, a second TPH sample was taken shortly after and results showed non detect.

Receiving Water:
The treated groundwater is discharged to the Las Vegas Wash via the stormdrain system. The Las Vegas

Wash from Telephone Line Road to the confluence of the discharges from the City of Las Vegas and Clark County wastewater treatment plant, NAC 445A.2156, standards apply.

Summary of Changes From Previous Permit:

Discharge flow rates have been increased from 0.0144 million gallons per day (MGD) to 0.0216 MGD for both the 30-day average and daily maximum permit limits.

Annual Profile I analysis has replaced the annual "Metals" requirement that was in the previous permit. Profile I includes all of the metals previously required and also includes total dissolved solids (TDS), nitrate plus nitrite, and pH. TDS, nitrate plus nitrite, and pH will now be sampled annually instead of quarterly to be consistent with other similar groundwater remediation system discharge permits.

Total Inorganic Nitrogen (TIN) has not been retained from the previous permit because of data over the entire permit life showing that TIN concentrations are minimal and are not likely to reach anywhere near the control point standard of 20 mg/L. Removing the TIN requirement will also be consistent with other similar groundwater remediation system discharge permits.

Volatile Organic Compounds (VOCs), excluding MTBE and BTEX, sampling requirements have been reduced from annually (influent) and quarterly (effluent) to sampling the effluent annually. Previous Discharge Monitoring Reports (DMRs) for VOCs have shown non detect or minimal values in the discharge. These changes will also update the permit sampling requirements to be consistent with other similar groundwater remediation system discharge permits.

Proposed Effluent Limitations:

The water discharged from the groundwater remediation system to the stormdrain system shall be limited, sampled and monitored by the Permittee as specified below.

Discharge Limitations Table for Sample Location 01A (Internal Outfall) To Be Reported Monthly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	30 Day Average	<= 0.0216 Million Gallons per Day (Mgal/d)		Internal Monitoring Point	01A	Continuous	METER
Flow rate	Daily Maximum	<= 0.0216 Million Gallons per Day (Mgal/d)		Internal Monitoring Point	01A	Continuous	METER

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Benzene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01B	Quarterly	DISCRT
Ethylbenzene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01B	Quarterly	DISCRT
Toluene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01B	Quarterly	DISCRT
Xylene	Daily Maximum		<= 200 Micrograms per Liter (ug/L)	Effluent Gross	01B	Quarterly	DISCRT
Methyl tert-butyl ether	Daily Maximum		<= 20 Micrograms per Liter (ug/L)	Effluent Gross	01B	Quarterly	DISCRT
Hydrocarbons, total petroleum[1]	Daily Maximum		<= 1 Milligrams per Liter (mg/L)	Effluent Gross	01B	Quarterly	DISCRT
Nitrogen, ammonia total (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Quarterly	DISCRT
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Quarterly	DISCRT

Notes (Discharge Limitations Table):

1. EPA Method 8015B and EPA Method 8260B, full range, purgeable and extractable.

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter	Effluent Gross	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
			(mg/L)				
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Phosphorus, total (as P)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01B	Annual	DISCRT
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
pH, minimum	Daily Minimum		>= 6.50 Standard Units (SU)	Effluent Gross	01B	Annual	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter	Effluent Gross	01B	Annual	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Annually [1]

	Discharge Limitations			Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Dibromochloromethane	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01B	Annual	DISCRT

Notes (Discharge Limitations Table):

1. Use EPA Method 8260 for all VOC parameters.

Rationale for Permit Requirements:

Monitoring is required to assess the quality of the discharge water and to ensure that the treated groundwater will not impact the beneficial uses of the Las Vegas Wash.

Flow: See flow section of the fact sheet.

Total Petroleum Hydrocarbons (TPH): Quarterly analysis for TPH has been retained from the previous permit. The Division's technology based remediation standard of 1.0 mg/L has also been retained. The shallow groundwater in the vicinity of the site has been contaminated by a petroleum hydrocarbon release. Continued monitoring is required to verify TPH removal by the treatment system.

Volatile Organic Compounds (VOC): Quarterly analysis for BTEX (benzene, toluene, ethylbenzene, and xylene) and MTBE (methyl tert-butyl ether) has been retained from the previous permit. The Division's technology based remediation standards for BTEX and MTBE are 5 μg/L, 100 μg/L, 100 μg/L, 200 μg/L, and 20 μg/L, respectively. Annual monitoring of all other VOCs is required to verify removal by the treatment system.

Total Ammonia as Nitrogen and Total Phosphorus: Quarterly monitoring of total ammonia and phosphorus has been retained in the permit due to the Wash total maximum daily loads (TMDLs) for these parameters.

Profile I: Annual monitoring and reporting of Profile I parameters are included because of possible natural occurrences and these constituents are not targeted or significantly attenuated by the treatment process.

Total Dissolved Solids (TDS): NAC 445A.2156 includes a TDS requirement of 95% of the single value samples being less than or equal to 1,900 mg/L. Background quarterly TDS monitoring has shown that the TDS concentration in the shallow groundwater is near or exceeds NAC 445A.2156 standards. The shallow groundwater with naturally occurring elevated TDS levels would flow to the Wash if it was not intercepted by the dewatering system, therefore, the TDS standard is not applied to remediation discharges in the area. Annual monitoring and reporting of TDS concentration is required under this permit.

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The Permittee has requested to increase the flow rate from 0.0144 million gallons per day (MGD) to 0.0216 MGD for both the 30-day average and daily maximum permit limits.

Corrective Action Sites:

There are thirteen (13) other Bureau of Corrective Actions (BCA) remediation sites located within one-mile of this facility. The BCA case officers don't expect the off-site remediation activities to be impacted by the proposed remediation at this site.

Wellhead Protection Program:

This facility is not located within an established Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of a revised Operations and Maintenance (O&M) Manual to the Division for review and approval. The O&M Manual shall be prepared and stamped by a Nevada Registered Professional Engineer or other qualified person.[1]	6/15/2013

Notes (Schedule of Compliance Table):

1. If no updates or revisions are required, the Permittee shall submit a letter by the above due date stating that there have been no changes to the previous approved O&M Manual.

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2013
2	Annual Reports	Annually	1/28/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to surface waters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **4/26/2013** , a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.650.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Jason Ferrin, E.I.**
Date: **2/27/2013**
Title: **Staff I Associate**